2013 THE BACHARACH BLUEBOOK

Combustion Analyzers | Leak Detectors | A/C Refrigeration & Maintenance | Fixed Gas Monitors | Safety & Specialty Products

A Century of Innovation & A World of Experience

100 Years

BACHARACH

A U.S. Manufacturer
Since 1909



YOUR ONE SOURCE

Serving the HVAC/R Industry

A Century of Innovation & A World of Experience

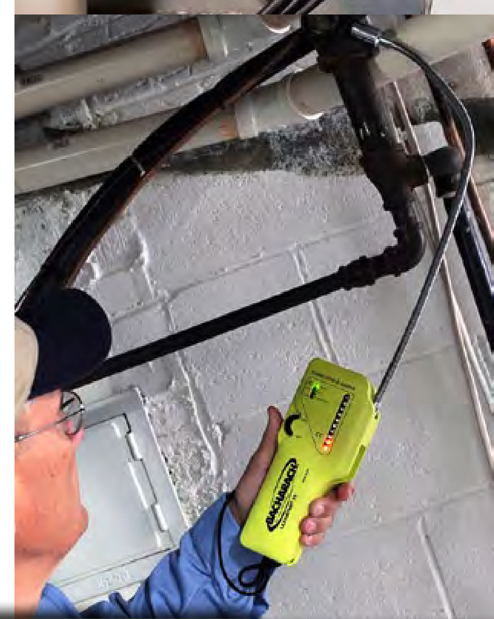
100 Years

Over A Century of Innovation

...And We're *Just* Getting Started!







THE ONE SOURCE

Established in 1909, Bacharach, Inc. is the world leader in the design, manufacture and service of advanced equipment to measure and detect gases including instruments that detect, measure and record combustion, refrigerant and environmental gases, temperature, humidity and other air quality and safety parameters.

- The ONE Source serving the HVAC/R industry for:
  - Combustion analyzers
  - Leak detectors (combustible & refrigerant gases)
  - Fixed gas monitors
  - A/C and refrigerant recovery machines, maintenance tools and gauges
  - Safety and specialty products
- Products designed to aid in the installation and servicing of heating, air conditioning & refrigeration equipment
- Instruments designed for residential, commercial and industrial applications
- In-house product development and technical expertise
- Excellent customer support — training, customer service, repairs
- An American Manufacturer for over 104 years

Bacharach Bluebook Contents

LOOK FOR THESE SYMBOLS

The capabilities needed for test and measurement instrumentation vary widely depending on the application and environment. To simplify your selection process, we have placed a symbol (R, C and i) designating the most appropriate application use for the product;

- R – Residential: Homes, and apartments (furnaces, boilers, hot water heaters, air conditioners, and stoves)
- C – Commercial: Institutions, office buildings, food storage, and labs (boilers, chillers, refrigeration racks, and indoor air quality)
- i – Industrial: Manufacturing facilities, and utilities (health and safety monitoring, control processes, and emissions)



B-SMART® SENSORS FOR PCA®3, INSIGHT® PLUS & INTECH®

THE B-SMART® ADVANTAGE - An Industry Exclusive!

with exclusive B-SMART® SENSORS

- You receive pre-calibrated replacement sensors that you can replace easily in-the-field.
- Eliminate instrument downtime and save money. No need to send instruments away for sensor changes and no need to remember calibration due dates.
- Replacement sensors are automatically shipped at pre-determined intervals of your choice*. Just choose the program start date that fits your schedule *(see page 45 for options)*.
- Receive your pre-calibrated B-Smart® sensor(s) in a returnable, pre-labeled container that you'll use to return your old sensor(s)*.

The B-Smart® Sensor Replacement Program offers you a flexible, no-hassle solution to periodic sensor calibration for the PCA® 3, Fyrite® INSIGHT® Plus and Fyrite® InTech® instruments. Offered exclusively from Bacharach, the program allows you to choose the schedule and number of calibrated sensors that you need for your instrument(s). Bacharach will automatically send out the plug-n-play sensors, pre-calibrated and ready to install, on the dates you specify over the length of the program*. For more information about which B-Smart® Calibration Program best fits your needs, please contact a Bacharach team member at 1-800-736-4666 or visit **www.MyBacharach.com/bsmart** to enroll.

Features +	Advantages =	Benefits
B-Smart® factory-calibrated sensors sent right to your door	**No need to return your instrument for calibration**	**No downtime**
Plug and play sensors	**Install the sensors yourself**	**Save time**
Self calibration	**No field gas calibration**	**Save money**

Oxygen sensors are not included as part of the B-Smart program and must be purchased separately.
**The auto-ship sensor exchange program option is currently available only in USA and Canada.*



BACHARACH'S FYRITE® FAMILY OF COMBUSTION ANALYZERS

For the most comprehensive full featured family of combustion analyzers, check out Bacharach's Fyrite® line of products. From simple to sophisticated and from basic to multi-use, Fyrite® products set the performance standard in their class. For industrial, commercial and residential applications, these instruments provide American-made reliability and innovative features that meet the needs and budget demands of contractors and technicians.



Find out why Bacharach's Electronic Combustion Analyzers lead the industry in ease-of-operation, minimal maintenance and lowest costs of ownership while delivering the measurable difference in combustion analysis. Visit: ***MyBacharach.com/wim.pdf***



NEW Fyrite® INSIGHT® Plus

Bacharach's new Fyrite® INSIGHT® Plus features innovative technology that makes electronic combustion analysis easy, efficient and accurate. This portable analyzer is 5-tools-in-1 that can:

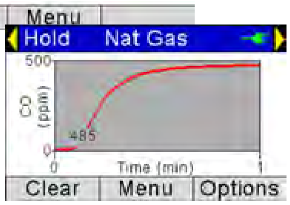
- Perform combustion efficiency testing for 9 different fuels (+2 custom)
- Test CO ambient conditions
- Measure CO in flue and calculate CO air free
- Serve as a dual channel digital thermometer (Up to 999°F)
- Function as a digital manometer (draft, gas pressure, ESP, up to ±40 INWC)

The INSIGHT® Plus utilizes Bacharach's new B-Smart® CO Sensor technology to eliminate the need to return the instrument to the factory for calibration, providing significant savings in downtime and expense.

Other advanced features include:

- Full-color LCD with info-graphic display shows real-time readings at-a-glance
- Ideal hot-spot indicator and trending graphs
- Intuitive operation with complete self-diagnostics on start-up
- Easy access to user-replaceable sensors and batteries
- B-Smart® CO sensor (0-4,000 ppm) with integral NO_X filter, & O_2 sensor come standard
- 9 pre-programmed (+2 custom) user-selectable fuels (10 fuels for Siegert version)
- Long-life (3 year) O_2 sensor option
- Internal data storage for up to 100 records
- Print range function, data download option via USB and Fyrite® User Software
- Includes hard carrying case, rubber boot, probe, spare filter, 4 "AA" batteries





Fyrite® INSIGHT® Plus Reporting Package Kit

The INSIGHT® Plus Reporting Package Kit contains all items included with the basic instrument, plus an IrDA printer, USB cable and software. It's a perfect tool for contractors.



Find out why the INSIGHT Plus is different when you read the "Why It Matters" flyer at: www.MyBacharach.com/wim.pdf

MEASUREMENT RANGES	RANGE
Combustion Air/Ambient Air Temperature	-4° to 600°F (-20° to 316°C)
Flue Gas Temperature	-4° to 1202°F (-20° to 650°C)
Oxygen (O_2)	0.0 to 20.9%
Carbon Monoxide (CO)	0 to 4,000 ppm
Draft / Differential Pressure	±40 INWC (10 mBar)
CALCULATED RANGES	**RANGE**
Combustion Efficiency	0.1 to 100%
Carbon Dioxide	0.1 to a fuel dependent max. value in percent
Carbon Monoxide (air free)	0 to 9,999 ppm
Excess Air	0 to 250%

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene, Oil #2, Oil #4, Oil #6, B5 + 2 custom

OTHER SPECIFICATIONS	
Power	Four disposable AA alkaline batteries (included)
Display	Full-color backlit LCD with zoom and info-graphing screen
Battery Life	Minimum of 15 hours, typical
Size	8.0"H x 3.6"W x 2.3"D (20.3cm x 9.1 cm x 5.8 cm)
Weight	16 oz. with batteries (0.45 kg)
Approvals	EN 50270 (CE mark), EN 50379
Warranty	2 years on instrument; 1 year on O_2 sensor (Long-life O_2 sensor carries 2 year warranty)

ORDERING INFORMATION	
0024-8515	Fyrite® INSIGHT® Plus
0024-8517	Fyrite® INSIGHT® Plus (with Long-Life O_2 sensor)
0024-8519	Fyrite® INSIGHT® Plus - European Model*
0024-8521	Fyrite® INSIGHT® Plus European Model* (with Long-Life O_2 sensor)
0024-8516	Fyrite® INSIGHT® Plus w/Reporting Pkg. Kit
0024-8518	Fyrite® INSIGHT® Plus w/Reporting Pkg. Kit (w/Long-Life O_2 sensor)
0024-8520	Fyrite® INSIGHT® Plus w/Reporting Pkg. Kit – European Model*
0024-8522	Fyrite® INSIGHT® Plus w/Report. Pkg. Kit – Euro. Model* (w/Long-Life O_2 sensor)
OPTIONAL ACCESSORIES	
0024-1492	Fyrite® INSIGHT® Plus Reporting Kit (with IrDA printer, USB cable & software)
0024-1400	IrDA Printer w/Disposable Batteries
0024-1310	Printer Paper (5 rolls)
0024-1611	Universal AC Power Adapter
0104-1797	Thermocouple 10 ft. (combustion at temp.)
0104-1798	Thermocouple 1 in. (ambient air temp.)
0024-8242	Differential Pressure & Temperature Kit
0007-1644	Replacement Filter Element (Package of 3)
0024-1591	Long-Life O_2 Replacement Sensor
0024-1616	B-Smart® CO Sensor (pre-calibrated)
0024-8257	Long-Life O_2 Sensor Upgrade Kit
0021-7006	Tru Spot® Smoke Test Kit
0024-8555	Optional Appliance Kit - for ambient CO tests - for EU standards
3015-3071	Replacement Dust / Mist Filter (for 0024-8555)

**European-based calculations (10 selectable fuels avail. in Siegert models). User-selectable languages built-in (English, French, Spanish, German, Italian, Polish, Danish and Dutch).*

Fyrite® InTech®

NEW

Based on the same technology as the Fyrite® commercial units, the Fyrite® InTech® is an affordable residential combustion analyzer that reduces service call time by providing accurate, electronic test results instantly. The InTech® analyzer is easy to use: simply turn the unit on, select the fuel type and insert the probe. It's that easy.

- Low-Cost with Quick Payback: A very affordable instrument that helps you get the efficient benefits of electronic combustion testing while reducing call times
- Measures O_2 (0-20.9%), CO (0-2,000 ppm), stack (0 to 999°F) and ambient temperature (32 to 212°F)
- Calculated measurement of combustion efficiency, CO_2, CO (air-free) and excess air
- 6 pre-programmed user-selectable fuels (10 fuels for Siegert version)
- Hgh-contrast display (with backlighting) shows critical real-time readings together
- B-Smart® CO sensor technology eliminates need for factory calibration
- Internal data storage for up to 10 complete records
- Long battery life - up to 18 hours on four replaceable "AA" batteries with auto-off power saving feature





Fyrite® InTech®

- Includes instrument, soft carrying case, 4 "AA" batteries, detachable probe, user manual

Fyrite® InTech® Basic Kit

- Includes instrument, detachable probe, hard carrying case, rubber boot, 4 "AA" batteries and user manual

Fyrite® InTech® Printer Kit

- Includes Fyrite® InTech®, detachable probe, 4 "AA" batteries, rubber boot, spare filters, Fyrite® User Software, USB cable and hard carrying case to fit it all

MEASUREMENT RANGES	RANGE
Ambient Air Temperature	23° to 113°F (-5° to 45°C)
Flue Gas Temperature	-4° to 1,202°F (-20° to 650°C)
Oxygen (O_2)	0.0 to 20.9%
Carbon Monoxide (CO)	0 to 2,000 ppm
CALCULATED RANGES	**RANGE**
Combustion Efficiency	0.1 to 100%
Carbon Dioxide (CO_2)	0.1 to a fuel dependent max. value in percent
Carbon Monoxide (air free)	0 to 9,999 ppm
Excess Air	0 to 250%
SELECTABLE FUELS	
Natural Gas, Oil #2, Oil #6, Propane/LPG, Kerosene, B5	
OTHER SPECIFICATIONS	
Power	Four disposable "AA" alkaline batteries (included)
Battery Life	Up to 18 hours of continuous runtime, typical
Size	8.0"H x 3.6"W x 2.3"D (20.3cm x 9.1 cm x 5.8 cm)
Weight	16 oz. with batteries (0.45 kg)
Approvals	EN 50270 (CE mark), EN 50379
Warranty	2 years on instrument; 1 year on O_2 sensor

ORDERING INFORMATION

0024-8510	Fyrite® InTech® (O_2 only)
0024-8511	Fyrite® InTech® (O_2, CO)
0024-8513	Fyrite® InTech® European Model* (O_2, CO)
0024-8523	Fyrite® InTech® Kit (without printer)
0024-8512	Fyrite® InTech® Printer Kit
0024-8514	Fyrite® InTech® Printer Kit European Model*

OPTIONAL ACCESSORIES

0024-1400	IrDA Printer w/ Disposable Batteries
0024-1310	Printer Paper (5 rolls)
0024-1461	Protective Boot with Magnet
0024-0865	Hard Carrying Case
0024-1505	NO_X Filter Kit
0019-3265	Water Trap/ Filter Assembly (for Probe Assembly)
0007-1644	Replacement Filters for Water Trap (package of 3)
0007-7006	Tru Spot® Smoke Test Kit
0007-7006	Optional Appliance Kit - for ambient CO tests

**European-based calculations (10 selectable fuels avail. in Siegert models). User-selectable languages built-in (English, French, Spanish, German, Italian, Polish, Danish and Dutch).*



PCA® 3

Bacharach's PCA®3 is the definitive combustion and emissions analyzer that enables fast and accurate measurement for on-demand or semi-continuous sampling of light industrial, institutional, commercial and residential furnaces, boilers and appliances. The PCA®3 uses Bacharach's unique B-Smart® sensor technology to save downtime and calibration costs.



- Flexibility with 6 sensor options – field-upgradable
- Large full color graphic display with bright backlighting, zoom display and dimming mode
- Measures O_2, stack temperature, primary/ambient temperature and pressure/draft
- Measures CO (hydrogen & NO_X compensated) from 0–4,000 ppm
- Provides CO over range protection
- NO_X reading from $NO+NO_2$ or calculated from NO only
- Selectable fuels include natural gas, kerosene, propane, coal, #2, #4 and #6 fuel oil, wood, bagasse and digester gas
- Includes hard carrying case, rubber boot, 12" probe assembly, spare filters, 4 "AA" batteries, "smart" sensors (as ordered), USB cable and PC software

Complies with: U.S. EPA Test Methods, CTM-030, & State and Local Protocols including SCAQMD

PCA® 3 with Reporting Package Kits

Combine the PCA®3 with the IrDA printer and you have the perfect Reporting Package tool. All reporting package kits contain all items included with the instrument, plus the IrDA printer.

MEASUREMENT RANGES

Primary/Ambient Air Temperature	–4° to 999° F (-20 to 537°C)
Flue Gas/Stack Temperature	–4° to 2192° F (-20 to 1200°C)
Oxygen (O_2)	0.1 to 20.9%
Carbon Monoxide (CO) (H_2 comp)	0 to 4,000 ppm
Carbon Monoxide (CO) (High Range)	4,001 to 20,000 ppm
Nitric Oxide	0 to 3,000 ppm
Nitrogen Dioxide	0 to 500 ppm
Sulfur Dioxide	0 to 5,000 ppm
Draft / Differential Pressure	–72 to +72 INWC

CALCULATED RANGES

Combustion Efficiency	0.1 to 100%
Excess Air	1.0 to 250%
Carbon Dioxide	0 to fuel dependent maximum
NO_x (NO_x = NO + NO_2)	0 to 3,500 ppm
NO_x referenced to % O_2	0 to 9,999 ppm
CO referenced to % O_2	0 to 9,999 ppm
NO referenced to % O_2	0 to 9,999 ppm
NO_2 referenced to % O_2	0 to 9,999 ppm
SO_2 referenced to % O_2	0 to 9,999 ppm
CO/CO_2 referenced to % O_2	0 to 9,999 ppm

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene, Oil #2, Oil #4, Oil #6, Bagasse and Digester Gas

OTHER SPECIFICATIONS

Power	Four disposable AA alkaline batteries providing 10 hours of continuous operation typical. Optional universal AC power adapter
Display	Full-color backlit graphic LCD with zoom (320x240 pixels)
Size	9" h x 3" w x 2.5" d (22.9 cm x 7.6 cm x 6.3 cm)
Weight	20 oz. w/batteries (0.6 kg)
Memory	500 complete combustion test records
Logged Memory	500 complete logged combustion test records
Approvals	EN 50270; CE Mark, EN 50379
Warranty	2 years on instrument; 1 year on O_2 sensor

ORDERING INFORMATION

N.AM P/N*	EU P/N**	DESCRIPTION
0024-8440	0024-8460	PCA®3 225 (O_2, CO)
0024-8441	0024-8461	PCA®3 235 (O_2, CO, NO)
0024-8442	0024-8462	PCA®3 245 (O_2, CO, CO high)
0024-8443	0024-8463	PCA®3 255 (O_2, CO, SO_2)
0024-8444	0024-8464	PCA®3 265 (O_2, CO, NO, NO_2)
0024-8445	0024-8465	PCA®3 275 (O_2, CO, NO, SO_2)
0024-8446	0024-8466	PCA®3 285 (O_2, CO, NO, CO high)
0024-8454	0024-8475	PCA®3 295 (O_2, CO, NO_2, SO_2)
0024-8447	0024-8467	PCA®3 225 Kit (O_2, CO, printer)
0024-8448	0024-8468	PCA®3 235 Kit (O_2, CO, NO, printer)
0024-8449	0024-8469	PCA®3 245 Kit (O_2, CO, CO high, printer)
0024-8450	0024-8470	PCA®3 255 Kit (O_2, CO, SO_2, printer)
0024-8451	0024-8471	PCA®3 265 Kit (O_2, CO, NO, NO_2, printer)
0024-8452	0024-8472	PCA®3 275 Kit (O_2, CO, NO, SO_2, printer)
0024-8453	0024-8473	PCA®3 285 Kit (O_2, CO, NO, CO high, printer)
0024-8455	0024-8476	PCA®3 295 Kit (O_2, CO, NO_2, SO_2), printer)

OPTIONAL ACCESSORIES

0024-1400	IrDA Printer w/ Disposable Batteries (included w/ Reporting Pkg. Kit)
0024-1254	Universal AC Power Adapter (110-240V)
0024-7224	Compact Sample Conditioner***
0024-3004	Replacement Probe Assembly (North American)
0024-3053	Replacement Probe Assembly (European)
0024-1124	20 ft Hose Extension with sample, draft and thermocouple lines
0019-3265	Water Trap / Filter Assembly (for probe assemblies)
0024-3150	High Temperature / High Dust Filter
0007-1644	Replacement Filter Element (pkg. of 3)
0021-7006	True Spot® Smoke Test Kit

**U.S.-based calculations*
***European-based calculations (Siegert)*
****Sample Conditioner is recommended when measuring NO2 and SO2 to ensure highest degree of measurement accuracy.*

User-selectable languages built-in (English, French, Spanish, German, Italian, Danish and Dutch).

ECA 450

The ECA 450, an industrial grade combustion efficiency and environmental analyzer compliant with EPA and state regulations, conducts accurate combustion and emissions tests to ensure that industrial equipment is burning efficiently and environmental regulations are being met.

- Industrial grade analyzer for both combustion efficiency and emissions analysis
- Generates and prints combustion efficiency and emissions reports
- Supports modular, field-replaceable, sensors for O_2, NO, NO_2, SO_2, CO and HC
- Expandable - add or change sensors as your requirements change
- Optional sensor upgrade kits available: CO (4,001-80,000 ppm) or HC (0-5%)
- Ideal for sampling and monitoring furnaces, boilers and other industrial combustion equipment
- Comes standard in hard case, 12" sample probe assembly with 15' of hose and built-in printer; optional sample/condition probe.



Complies with: U.S. EPA Test Methods, CTM-030, & State and Local Protocols including SCAQMD

ETV CE EPA/ETV Test Verified Performance

MEASUREMENT	RANGE
Primary/Ambient Air Temperature	–4° to 999° F (-20 to 537°C)
Stack Temperature	–4° to 2400° F (-20 to 1316°C)
Draft / Differential	-27.7 to +27.7 in. of H_2O
Oxygen (O_2)	0.0 to 20.9%
Carbon Monoxide (CO) (H_2 comp)	0 to 4,000 ppm
Carbon Monoxide (CO) (High Range)*	4,001 to 80,000 ppm
Nitric Oxide (NO)*	0 to 3,500 ppm
Nitrogen Dioxide (NO_2)*	0 to 500 ppm
Sulfur Dioxide (SO_2)*	0 to 4,000 ppm
Combustible Gases (HC)*	0 to 5.00% (application dependent)

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene, Oil #2, Oil #4, Oil #5, Oil #6, Bagasse

CALCULATED RANGES	RANGE
Combustion Efficiency	0.1 to 100.0%
Excess Air	0 to 250%
Carbon Dioxide (dry basis)	0 to fuel dependent maximum
NO_x (NO_x = NO + NO_2)	0 to 4,000 ppm
NO_x referenced to % O_2	0 to 17,000 ppm
CO referenced to % O_2	0 to 99,999 ppm
NO referenced to % O_2	0 to 14,900 ppm
NO_2 referenced to % O_2	0 to 2,100 ppm
SO_2 referenced to % O_2	0 to 17,000 ppm

** Optional*

OTHER SPECIFICATIONS	
Power	Universal AC adapter and an internal battery pack. Adapter will accept input voltages from 100 to 240V. Fully charged battery pack provides a minimum of 8 hrs of operation
Size	13.5" H x 18.5" W x 9" D (34.3 cm x 47 cm x 22.9 cm)
Weight	25 lbs (11.34 kg)
Memory	Stores 1,900 test records
Display	160 x 160 pixels (2.5 in. x 2.5 in.) Liquid Crystal Display
Warranty	1 year (does not include probe)

ORDERING INFORMATION

0024-7221	ECA 450 Base Unit (O_2, CO, Ts, Ta, DP)
0024-8400	ECA 450 with NO / NO_2 sensors and compact sample conditioner
0024-8401	ECA 450 with NO, NO_2 and SO_2 sensors and compact sample conditioner

OPTIONAL ACCESSORIES

0024-3024	24" Probe Assembly
0024-3025	36" Probe Assembly
0024-7224	Compact Sample Conditioner/Probe
0024-3035	24" High Temperature Probe Assembly
0024-3036	36" High Temperature Probe Assembly
0024-3037	48" High Temperature Probe Assembly
0024-1124	20 Ft. Hose Extension with sample, draft and thermocouple lines
0024-1172	Water Trap/Filter Assembly (for Probe Assemblies)
0007-1644	Replacement Filters for Water Trap (pkg of 3)
0007-1646	Replacement Filters for Compact Sample Conditioner/Probe (pack of 5)
0007-1647	Replacement Filter for Peltier Cooler
0104-4027	Serial Cable DB 9M to DB 9F
0024-3150	High Temperature / High Dust Filter
0024-0980	Printer Paper (5 rolls)

OPTIONAL SENSOR UPGRADE KITS*

0024-3026	CO Sensor (4,001 to 80,000 ppm)
0024-3027	NO Sensor (0 to 3,500 ppm)
0024-3029	NO_2 Sensor (0 to 5,000 ppm)
0024-3030	SO_2 Sensor (0 to 4,000 ppm) - requires NO_2 Sensor to be purchased
0024-3028	Combustible Sensor (0 to 5%) - Oxygen dependent

**Factory installation required*

Two pumps are included. The first pump supplies gas sample to the sensors. The second pump supplies fresh air to purge the low range CO sensor when CO levels exceed 4000 ppm. Probe includes a standard probe and hose assembly equipped with a water trap, particulate filter, probe stop, 15 feet of hose and 12-inch probe tube.

Fyrite® Classic



The Fyrite® Classic series includes fast, easy to use instruments for measuring carbon dioxide or oxygen. The units, while looking very similar, differ in construction and absorbing fluid. Each model is suitable for only the particular gas and measurement range for which it was manufactured. Accuracy of all Fyrite® Classic products is ±0.5%.

KEY FYRITE® CLASSIC FEATURES INCLUDE:

- Broad measurement range
- Capable of being exposed to ambient temperatures from –30° to +150°F
- Withstands measurement gas temperatures up to 850°F



	MEASUREMENT		
PART NUMBER	CO_2	O_2	APPLICATIONS
0010-5000 0010-5001*	0-20%	NA	Flue gas combustion tests and CO_2 tests of heat treating atmospheres
0010-5020 0010-5021*	0-20%	0-21%	All of the applications above plus; oxygen deficiency testing, O_2 concentrations in hydrogen cooled generators and oil sealed inert gas transformers
0010-5053 0010-5083*	0-7.6%	NA	CO_2 tests of controlled atmospheres in fruit, vegetable, meat storage rooms, and incubator monitoring
0010-5054 0010-5084*	NA	0-7.6%	Oxygen determination in flammable gases; oxygen tests to check inertness of atmosphere in silos, fuel tanks, etc.
0010-5011 0010-5012*	NA	0-21%	Flue gas combustion tests, oxygen deficiency test. Checking oxygen concentrations in hydrogen cooled generators and oil sealed inert gas transformers
0010-5032 0010-5033*	0-60%	NA	Checking CO_2 in inert gas blankets in tankers and barges carrying gasoline and other combustibles; CO_2 tests on lime kilns, checking CO_2 in sewage plant digesters

Fyrite® Classic Oil Kit

0010-5022 0010-5150*	20%	NA	Includes: CO_2 indicator, True Spot® Smoke Tester, Oil Burner Smoke Scale, Fire Efficiency Finder, Tempoint® Dial Thermometer, MZF Draft Gauge and hard carrying case

** Export Kit (shipped without fluid)*

OPTIONAL ACCESSORIES

0010-5057	Refill fluid CO_2 (20% & 60%) – 3 bottles
0010-5100	Refill fluid CO_2 (7%) – 3 bottles
0010-5060	Refill fluid O_2 (21% & 60%) – 3 bottles
0010-5103	Refill fluid O_2 (7%) – 3 bottles
0011-7047	Repair Kit CO_2 (20% & 60%) – 2 bottles plus parts
0011-7050	Repair Kit O_2 (21% & 60%) – 2 bottles plus parts
0011-7052	Repair Kit CO_2 (20% & 60%) – 1 bottle plus parts

Combustion Tools

True Spot® Smoke Test Kit



- Evaluates smoke density in the flue gases from distillate fuel
- Accurate smoke readings take less than a minute
- Standard in the industry

0021-7006	True Spot® Smoke Test Kit
0021-7012	True Spot® Test Pump
0021-0018	True Spot® Smoke Scale
0021-0040	True Spot® Lubricant
0021-0019	True Spot® Filter Paper Sheets (40 strips)
0021-0020	True Spot® Scale and Filter Paper



Tempoint® Thermometer

0012-7014	6 in., 200°F to 1000°F
0021-7018	12 in., 200°F to 1000°F

Draftrite® Pocket Gauge



- This pocket size draft instrument is suitable for checking flue pipe, chimneys, smoke hoods and oil burner firing rates

0013-3000	Draftrite® +0.10 to 0 to -0.14" WC
0013-3001	Draftrite® +0.05 to 0 to -0.25" WC
0013-5010	Draftrite® Tube Set

Note: All models supplied with two sections of draft tube and Leatherette Case 0013-0003.



Note: All models supplied with 5" draft tube and 9' of rubber tubing.

MZF Draft Gauge

- Requires no liquids or leveling
- Ideal for use in applications such as residential, commercial and industrial heating plants and for furnace draft pressure drop across filters

0013-7018	MZF Draft +1.0 to 0 to -5 mm WC
0013-7019	MZF Draft +0.05 to 0 to -0.25" WC

Portable Manometer



A valuable instrument for measuring and adjusting the inlet and manifold pressure for gas heating equipment and appliances.

- The Bacharach Manometer is designed for accuracy, readability, and portability
- Also used to determine filter resistance, fan efficiency, air velocity, and static pressures

0017-7000	Portable Manometer 0-15 INWC and 0-8.5 oz. per sq. in
0017-7002	Portable Manometer 0-15 INWC and 0-38 cm WC
0017-0025	Portable Manometer Replacement fluid

Fyrite® Family of Products



Fyrite® Family of Products	Fyrite® Classic	Fyrite® InTech®	INSIGHT® Plus	PCA® 3	ECA 450
WHAT THEY DO					
Combustion Efficiency Analyzer	✓	✓	✓	✓	✓
Room Air CO Test Instrument		✓	✓	✓	✓
Flue Gas CO Test Instrument		✓	✓	✓	✓
Dual Channel Digital Thermometer			✓	✓	✓
Digital Manometer			✓	✓	✓
Emissions Compliance Testing (NO, NO_2, SO_2)				✓	✓
WHAT THEY MEASURE					
Flue Gas Temperature		✓	✓	✓	✓
Combustion Air/Ambient Air Temperature		✓	✓	✓	✓
Pressure (Draft, Gas Pressure, Static Pressure)			✓	✓	✓
Oxygen Levels (O_2)	✓	✓	✓	✓	✓
Carbon Monoxide (CO)		✓	✓	✓	✓
Carbon Monoxide (CO) High				✓	✓
Carbon Dioxide (CO_2)	✓				
Nitric Oxide (NO)				✓	✓
Nitrogen Dioxide (NO_2)				✓	✓
Sulfur Dioxide (SO_2)				✓	
Hydrocarbons (HC)					✓
WHAT THEY CALCULATE					
Combustion Efficiency	w/ Slide Ruler	✓	✓	✓	✓
Excess Air		✓	✓	✓	✓
Carbon Monoxide Air Free (CO)		✓	✓	✓	✓
Carbon Dioxide (CO_2)		✓	✓	✓	✓
WHAT THEY TEST					
Oil - #2	w/ Slide Ruler	✓	✓	✓	✓
Oil - #4	w/ Slide Ruler		✓	✓	✓
Oil - #6	w/ Slide Ruler	✓	✓	✓	✓
Natural Gas, Propane, Kerosene	w/ Slide Ruler	✓	✓	✓	✓
Coal	w/ Slide Ruler		✓	✓	✓
Bagasse				✓	✓
Digester Gas				✓	
Wood			✓	✓	
B5 (5% BioDiesel)		✓	✓		
WHAT THEY FEATURE					
B-Smart® Sensors		✓	✓	✓	
Field Replaceable Smart Sensors		✓	✓	✓	
Color Graphic LCD Display			✓	✓	
Back Light		✓	✓	✓	✓
Zoom		✓	✓	✓	
Data Logging		✓	✓	✓	✓
Printing Capability		✓	✓	✓	✓
PC Download Capability			✓	✓	✓
Sensor Life Indicator		✓	✓	✓	
Calibration Reminder		✓	✓	✓	
Automatic CO Over Range Protection			✓	✓	✓
Warranty	1-year	2-years	2-years	2-years	2-years
WHAT CAN BE ADDED					
True Spot® Smoke Test Kit	✓	✓	✓	✓	✓
IrDA Printer/Built-In Printer		✓	✓	✓	✓
Compact Sample Conditioner for Emission Compliance Testing				✓	✓
CERTIFICATIONS					
EN50379		✓	✓	✓	
CE Mark		✓	✓	✓	✓



BACHARACH'S LEAK DETECTOR FAMILY OF PRODUCTS

Bacharach manufacturers a complete line of leak detectors for combustible and refrigerant gases and one universal leak detector, the Informant® 2, that measures both types. Bacharach handheld portable units offer a wide range of visual and audible indicators, fast warm up and long battery life. Models are also available that are certified intrinsically safe for use in Class I, Division 1 Groups A,B, C and D hazardous locations. Designed for sensitivity and fast response, there is a Bacharach unit available to meet most any leak detection requirement.

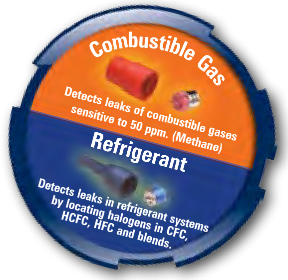
Informant® 2



The Informant® 2 is the only universal leak detector that can detect both combustible and refrigerant gases and is perfect for residential and commercial heating and cooling contractors.

The Bacharach Advantage:

- One-of-a-kind dual purpose refrigerant and combustible gas leak detector
- Automatically leads you directly to leak source
- Can swap sensor tips within seconds
- Sensitivity levels are automatically adjusted
- Refrigerant sensor tip is finely tapered to gain access to hard to reach areas
- Detects new hydrocarbon refrigerants R600a and R290
- Certified intrinsically safe



Patents: #6,362,741, #D447,071 and #5,932,176

Informant® 2 Contractor Kit

- Instrument comes with refrigerant and combustible gas sensors, color-coded probe tips, instruction manual, protective rubber boot, 4"AA" batteries, 5 filters and hard carrying case



Informant® 2 Deluxe Kit

- Refrigerant and combustible leak detector
- Includes refrigerant and combustion sensors, color-coded probe tips, protective rubber boot, flashlight, 6"AA" batteries, 5 filters and hard carrying case

SENSING TECHNOLOGY	
Refrigerant Sensor	Heated Diode - U.S. Patent No. 5,932,176
Combustible Sensor	Patented semiconductor type. Five year typical life. Plug-in replacement
GASES DETECTED	
Refrigerants	All CFC, HCFC and HFC refrigerants including: R-12, R-22, R-123. R-134a and blends R-404A, R-408A, R-409A and R-410A (i.e., any refrigerant containing Chlorine, Fluorine or Bromine gas). Also detects R600a and R290 refrigerants
Combustible Gases	All combustible gases and vapors
RESPONSE TIME	
Refrigerants and Combustible Gases	Instantaneous
ALARM SENSITIVITY	
Refrigerants	Less than 0.25 oz/yr of R-134a (hardest to detect refrigerant)
Combustible Gases	Minimum 50ppm (Methane)
ALARM TYPES	
Audible, dual visual LED's and flashing probe tip	
OTHER SPECIFICATIONS	
Power	Four disposable AA alkaline batteries (included)
Battery Life	4-5 hours, under typical intermittent operation
Size	1.75"W x 9.6"L x 2.25"H (4.45 cm x 24.4 cm x 5.7 cm)
Weight	0.86 lbs. (0.39 kg) with batteries
Warranty	One year, including sensors
CERTIFICATIONS	
Refrigerants	SAE J1627; CE Mark
Combustible Gases	UL 913, intrinsically safe for use in Class 1, Division 1, Group D hazardous areas; CE Mark

ORDERING INFORMATION	
0019-8038	Informant® 2 Contractor Kit
0019-8045	Informant® 2 Dual Sensor Deluxe Kit
0019-8040	Informant® 2 Refrigerant-only Kit (No Boot)
0019-8041	Informant® 2 Combustible Gas-only Kit (No Boot)
OPTIONAL ACCESSORIES	
0019-0499	Replacement Combustible Sensor
0019-0510	Replacement Refrigerant Sensor
0019-0509	Replacement Filters (pkg of 5)
0019-0497	Protective Rubber Boot
0006-9457	MagLite® flashlight

Leakator® 10



0019-7051
- Combustible gas leak detector
- Includes carrying case, gas sensor, flexible 20" probe and instruction manual
- 10 LED visual display
- Audible tick rate indicator
- Adjustable sensitivity
- 30 hour battery life
- 20 - 50 ppm sensitivity range
- UL 913 Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous locations; CE-Mark

0019-7063
- Leakator®10 ETO for detection of Ethylene Oxide

OPTIONAL ACCESSORIES

0019-0398	Replacement Sensor/Resistor for 0019-7051
0019-0270	Replacement Sensor/Resistor for 0019-7063
0051-2529	Optional Earphone

Leakator® Jr.



0019-7075
- Combustible gas detector
- Includes sensor, flexible 12" probe, soft case and batteries
- Visual On/Off LED display
- Audible tick rate indication
- Quick, 60 second warm up time
- Dual level sensitivity settings (20 and 50 ppm)
- UL 913 Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous locations; CE-Mark

OPTIONAL ACCESSORIES

0019-0575 Replacement Sensor for Leakator® Jr.

Tru Pointe®

0019-8106
- Refrigerant gas leak detector at an affordable price for the budget conscious customer
- Instantly responsive to all refrigerants
- Includes hard carrying case and batteries
- Audible and visual alarms
- 10 second warm up
- Patented senor
- SAE J1627; CE-Mark

OPTIONAL ACCESSORIES

0019-0559 Replacement Sensor for Tru Pointe®



Patent: #5,932,176

Tru Pointe® Ultra & Tru Pointe® Ultra HD



Bacharach's Tru Pointe® Ultra is a compact ultrasonic leak detector that uses patented technology to detect leaks in air conditioning and refrigeration systems. The Tru Pointe® Ultra is the world's first pocket-size electronic instrument that can simultaneously detect **both** the vacuum and high pressure leaks that occur in HVAC/R systems. The Tru Pointe® Ultra guides the user to a leak by quantifying the intensity of the ultrasound and converting it to a sound the user can hear easily through headphones.

The Bacharach Advantage:

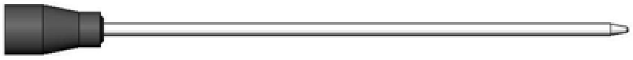
- Senses leaks for ***any*** gas under pressure or vacuum
- Not affected by wind or the presence of other gases or high concentrations
- Ten-step LED bar graph shows signal strength
- On-the-fly sensitivity adjustment aids in locating leaks quickly
- True sound reproduction ensures fast recognition of leaks
- Finds small leaks instantly

Headset Options - Choice of compact, foldable headset or high-quality stereo headset; choose Tru Pointe® Ultra or Tru Pointe® Ultra HD.



SoundBlaster® - Ultrasonic Sound Generator. Artificially pressurizes rooms, tanks, enclosures with sound that the Tru Pointe® Ultra can detect thus locating where they leak air, water or other fluids or gases.

Touch Probe - Helps convert sounds within valves or solids to airborne sound for the Tru Pointe® Ultra to detect (patented).



ELECTRICAL SPECIFICATIONS	
Airborne Sensor	
Sensitivity	-80dB/v-µbar
Ultrasound Convertor	
Type	Analog Controlled Heterodyne
Frequency response,	
Airborne	34kHz to 42kHz
Heterodyne Filter	4kHz
Heterodyne Oscillator	Analog
Controls	1 button
Sensitivity Control	Continually Variable Slide
Output, Audio	0Hz to 4kHz
Output, Visual	10 Segment Bar Graph
Battery Type	9 Volt
Run Time	80-120 hrs

MECHANICAL SPECIFICATIONS	
Size	5.5" x 2.4" x 0.875" (14 cm x 61 mm x 22.22 cm)
Weight	0.3 lb (138gr) Includes Battery
Audio Connector	3.5mm stereo
Warranty	1 year

ORDERING INFORMATION	
0028-8000	Tru Pointe® Ultra Leak Detector Kit w/folding headset
0028-8010	Tru Pointe® Ultra Leak Detector Kit w/folding headset & Soundblaster®
0028-8001	Tru Pointe® Ultra HD Leak Detector Kit w/stereo headphones
0028-8011	Tru Pointe® Ultra HD Leak Detector Kit w/stereo headphones & Soundblaster®
0028-8006	Soundblaster® Ultrasonic Sound Generator

Tru Pointe® 1100 Ultrasonic Leak Detector Kit



The Tru Pointe® 1100 is a state-of-the-art digital ultrasonic inspection system for leak detection, mechanical inspection and troubleshooting. It accurately detects ultrasounds generated by leaks and pinpoints them at the speed of sound. It detects airborne leaks or electrical arcing in the frequency band of 34 kHz to 42 kHz and 16 kHz to 24 kHz for internal leaks or bearing wear using the patented internal Touch Probe sensor.

- Unaffected by the presence of other gases or sounds in the test area
- Includes high-quality noise attenuating headphones compatible with hard hats
- Unique AudioZoom™ volume control

Tru Pointe® 2100 Ultrasonic Leak Detector Kit

The first of its kind, theTru Pointe® 2100 uses two software-controlled sensors for the detection of airborne leak sounds and for the detection and location of solid-borne sounds from leaks and bearing wear. For ease of use and interpretation, the Tru Pointe® 2100 has two digital LED displays – a 20-segment bargraph display with peak-hold and an alphanumeric display for instrument settings and precision measurements. It's the most accurate and repeatable ultrasonic inspection instrument in its class.

- Capable of detecting a 5 PSI leak out of a 0.005" hole, 30' to 40' away (depending on background noise)
- Ideal for stream trap testing, detecting bearing wear, gas and valve leaks
- Capability of detecting ANY gas leaks, regardless of chemical property or concentration
- Capability of functioning like a stethoscope, using an industry-exclusive acoustic band, 0-10kHz



Tru Pointe® 1100 Specifications

AIRBORNE SENSOR SENSITIVITY	
	-80dB/v-µbar
ULTRASOUND CONVERTER TYPE	
	Digitally Controlled Heterodyne
FREQUENCY RESPONSE	
Airborne	34kHz - 42kHz
Touch Probe	16kHz - 24kHz
OUTPUT	
Audio	0Hz to 4kHz
Visual	20 Segment Bar Graph with Peak-Hold & Separate Alphanumeric display
ELECTRICAL SPECIFICATIONS	
Low Battery Indicator	Digital Display: BATT
Insuff. Battery Charge	Automatic shutdown
MECHANICAL SPECIFICATIONS	
Controls	4 Buttons (with AudioZoom™)
Power	9 Volt battery: provides 55-80 hrs. run time
Size	8.185" x 2.4" x 0.875" (20.78 cm x 6.1 cm x 2.22 cm)
Weight	0.5 lb. (233 g)
Audio Connector	3.5mm stereo
Warranty	1 year

ORDERING INFORMATION

0028-8002	Tru Pointe® 1100 Ultrasonic Leak Detector Kit
0028-8012	Tru Pointe® 1100 Ultrasonic Leak Detector Kit with Soundblaster®

Tru Pointe® 2100 Specifications

AIRBORNE SENSOR SENSITIVITY		
	-80dB/v-µbar	
ULTRASOUND CONVERTER TYPE		
	Digitally Controlled Heterodyne	
FREQUENCY RESPONSE		
Airborne	AirHi: 34kHz - 42kHz	AirLo: 26kHz - 34kHz
Touch Probe	PbHi: 34kHz - 42kHz	PbLo: 16kHz - 24kHz
Touch Probe Sonic	PbS: 0 - 10kHz	
OUTPUT		
Audio	0Hz to 4kHz	
Visual	20 Segment Bar Graph with Peak-Hold & Separate Alphanumeric display	
ELECTRICAL SPECIFICATIONS		
Low Battery Indicator	Digital Display: BATT	
Insuff. Battery Charge	Automatic shutdown	
MECHANICAL SPECIFICATIONS		
Controls	4 Buttons (with AudioZoom™)	
Power	9 Volt battery: provides 55-80 hrs. run time	
Size	8.185" x 2.4" x 0.875" (20.78 cm x 6.1 cm x 2.22 cm)	
Weight	0.5 lb. (233 g)	
Audio Connector	3.5mm stereo	
Warranty	1 year Audio Connector3.5mm stereo	

ORDERING INFORMATION

0028-8003	Tru Pointe® 2100 Ultrasonic Leak Detector Kit
0028-8013	Tru Pointe® 2100 Ultrasonic Leak Detector Kit with Soundblaster®



H-10PM

3015-0627

- Refrigerant leak detector with dual power source that detects all CFC, HFC and HCFC
- Manual or automatic zero balance control
- Pass / fail test mode
- Unique sensor calibration system
- 3 sensitivity modes
- Powered by a rechargable battery
- Pinpoints both small and large leaks

H-10G



3015-0456

- Refrigerant leak detector with automatic and manual adjustment
- Detects all CFC, HFC and HCFC refrigerants
- AC powered (120 VAC only)
- Performance exceeds SAE J1627
- Supplied with leak reference bottle, probe tip and filter kit

	H-10PM	H-10G
SENSING TECHNOLOGY		
Refrigerant Sensor	Positive Ion Emission Heated Diode	
GASES DETECTED		
Refrigerants	All CFC, HCFC and HFC refrigerants	
RESPONSE TIME		
	1 second	
ALARM SENSITIVITY		
R-134a	Small - 0.1 oz / year Medium - 0.5 oz / year Large - 2.0 oz / year	
R12	Small - 0.05 oz / year Medium - 0.1 oz / year Large - 1.0 oz / year	
Accuracy	Exceeds SAE J1627	
LEAK ALARM		
Audible and visual	Visible LED lamp	Audible alarm and visible neon lamp
OTHER SPECIFICATIONS		
Power	12 VDC - internal rechargeable sealed lead acid battery	120 VAC 50/60 Hz
	120 - 240 VAC universal battery charger to charge or run unit continuously	
Size	5.5" x 10.5" x 8.5" (14 cm x 26.67 cm x 21.6 cm)	2.5" x 4.5" x 8.5" (6.35 x 11.43 x 21.6 cm)
Weight	5 lbs. (2.27 kg)	3 lbs. (1.36 kg)
Probe Length	4.5 ft (1.37 m)	4.5 ft (1.37 m)
CERTIFICATIONS		
	CE-Mark	

ORDERING INFORMATION

3015-0627	H-10PM All-In-One Leak Detector
3015-0648	H-10PM Leak Detector (for export)
3015-0456	H-10G Standard Leak Detector

OPTIONAL ACCESSORIES

3015-0119	Battery Charger for H-10PM, 120 - 240 VAC Universal (will charge or run unit)
3015-0103	Battery for H-10PM
3015-0326	14" Flexible Probe
3015-0638	Standard Probe Assembly for H10G
3015-0486	Replacement Sensor
3015-0864	Leak Reference Bottle
3015-0641	Clear Probe Tip
3015-0781	Tune-Up Kit
3015-0784	Maintenance Kit
3015-0680	Rubber Probe Tip
3015-0880	Probe w/LED for H-10PM

H25-IR PRO

The H25-IR Pro is a next-generation industrial-grade leak detection and gas analyzer. Capable of detecting over 40 of the most commonly used refrigerants and halogen gas compounds (including R600a, R290 and SF_6), the H25-IR Pro can be used to locate and then quantify gas leaks, as well as log and totalize a group of leaks in a system. Measurements can be displayed in terms of leak rate (oz/yr, g/yr, mL/s, PaM3/s) or concentration (ppm). The long-life infrared sensor and high sensitivity make the H25-IR Pro the smart choice for the most demanding leak detection and measurement applications. Other sensor choices (*) are available for specific applications.

Patent # 6,590,690



Features exclusive Numeric Leak Rate Display and optional Smart Probe

- Responds to leaks in less than 1 second
- NEW: Advanced Leak Quantification (ALQ™) technology eliminates the need for periodic adjustments to a calibrated reference leak source
- IR sensor quickly and accurately pinpoints leaks and minimizes false alarms.
- Detects leaks as small as 0.03 oz/yr (0.9 g/yr)
- Comprehensive diagnostics keep track of system parameters

ORDERING INFORMATION

3016-1311	CFC/HCFC Refrigerants - Includes Smart Probe with 6' hose
3016-1321	CFC/HCFC Refrigerants - Includes Smart Probe with 12' hose
3016-2311	R600a - Includes Smart Probe with 6' hose
3016-2321	R600a - Includes Smart Probe with 12' hose
3016-3311	R290 - Includes Smart Probe with 6' hose
3016-3321	R290 - Includes Smart Probe with 12' hose

Additional models available that include a standard probe with or without LED and button.

The H25-IR PRO is not designed or certified for intrinsic safety and may not be suitable for use in certain environments.

SENSING TECHNOLOGY

Non-Dispersive Infrared (NDIR)

GASES DETECTED

Refrigerants	CFC, HFC, and HCFC unit: R-11, R-12, R-21, R-22, R-23, R-32, R-113, R-114, R-123, R-124, R-125, R-134a, R-227, R-236fa, R-245fa, R-401a, R-402a, R-402b, R-404a, R-407a, R-407c, R-408a, R-409a, R-410a, R-422a, R-422d, R-424a, R-426a, R-427a, R-438a, R-500, R-502, R-503, R-507, R-508b, FA188, FC72, H-1211, H-1234YF, H-1301, H-2402, HFP, N-1230
Isobutane	R-600a
Propane	R-290
Other	Sulfur hexafluoride (SF_6) *on request Carbon Dioxide (CO_2) *on request

RESPONSE TIME

With 6' probe hose attached 1 second

MEASUREMENT

Units	oz/yr, g/yr, mL/s, PaM3/s, ppm
Range	0.01 - 5.00 oz/yr (0.85-142g/yr (0-1,000ppm)
Sensitivity	0.03 oz/yr (0.9 g/yr)

WARM UP TIME

60 seconds to begin use

OPERATING MODES

Search	Detects presence and location of gas leaks
Measure	Calculates and displays leak rate

OPERATING RANGES

Operating Temperature Range	32°F to 122°F (0°F to 50°C)
Operating Humidity Range	5 to 90% RH, non-condensing

OTHER SPECIFICATIONS

Power	100 to 240 VAC, 50/60 Hz
Size	4"H x 10.75"W x 15"D (10.2 cm x 27.3 cm x 38.1 cm)
Weight	18 lbs. (8.2 kg)
Probe Length	Smart Probe, 6 foot Hose Smart Probe, 12 foot Hose
Warranty	Two year full warranty on instrument

The LS-25 Series Leak Standard provides an NIST-traceable reference leak source for instrument functional testing or adjustment. The unit is factory calibrated and shipped fully charged with the selected refrigerant, sufficient to provide years of service. Annual re-calibration is suggested.



Leak Detector Family of Products	Informant® 2	Leakator® 10	Leakator® Jr.	Tru Pointe®	H-10G	H-10PM	H25-IR PRO
							
	R C	R C	R C	R C	C i	R	C i
WHAT THEY DETECT							
Combustible Gas Leak Detection	✔	✔	✔				
Refrigerant Leak Detection	✔			✔	✔	✔	✔
Specialty Gas Leak Detection							✔
SENSITIVITY							
Refrigerant (oz/year of R134a)	0.25			0.1	0.1 (0.05 for R12)	0.1 (0.05 for R12)	0.03 (0.01 for R12)
Combustibles (ppm Methane)	50	20	20				
Sensitivity Modes	Auto	Manual	2	2	3	3	3
Response Time	Instantaneous	Instantaneous	<3 sec to fs	Instantaneous	1 sec	1 sec	0.5 - 1 sec
WHAT THEY FEATURE							
Automatic Calibration and Zero Out Function	✔		✔	✔	✔	✔	✔
Replaceable Sensors	✔	✔	✔	✔	✔	✔	Infrared
Warm Up Time (approx. in seconds)	10	10	60	10	120	120	60
Audible Alarm	✔	✔	✔	✔	✔	✔	✔
Mute Option	✔						Adj. Volume
Visual Alarm	✔	✔	✔	✔	✔	✔	✔
Hard Shell Case	✔	✔		✔	Self-contained	Self-contained	Self-contained
Warranty	1-Year	1-Year	2-Years	1-Year	3-Year Lim.	3-Year Lim.	2-Years
POWER SOURCE							
Battery Life (typical in hours)	5	30	14	15		3	N/A
Low Battery Indication	✔	✔	✔	✔		✔	
Power Supply/Batteries	4 AA cell alkaline	5 C cell alkaline	4 AA cell alkaline	2 D cell alkaline	120 VAC (internal & external 120VAC)	12 VDC VAC	100 - 240 VAC
CERTIFICATIONS							
UL 913 Intrinsically Safe Class I, Div. 1, Group D	✔	✔	✔				
CE Mark	✔	✔	✔	✔	✔	✔	✔
SAE J 1627	✔			✔			



A/C, REFRIGERATION AND MAINTENANCE FAMILY OF PRODUCTS

Bacharach offers a complete line of rugged and durable refrigerant recovery machines designed for portability. These units simplify and speed up the recovery of most common refrigerants and are available to meet the requirements of residential, commercial and industrial work environments. In addition, Bacharach offers an A/C refrigeration and maintenance group of products to do the job, including vacuum pumps, scales, manifolds, and swaging and cutting kits.

Stinger®



AHRI CERTIFIED™ www.ahridirectory.org

The Stinger® is one of the highest quality refrigerant recovery units on the market. Its powerful compressor will pump refrigerants at a quick pace while preventing pollutants from escaping into the environment. This A/C refrigerant recovery unit has been designed with R-410a in mind in addition to other refrigerants, and is perfect for residential and light commercial contractors.

The Bacharach Advantage:

- Vacuum shut off allowing for unattended recovery operation
- Easy to read low vacuum/tank full LED
- Carrying strap
- Improved packaging protects knobs and gauges
- Larger condenser provides better heat dissipation on hot days: *important for R-410a*
- High torque motor on compressor handles higher pressures under load
- One year over the counter warranty
- Handles almost all refrigerants
- Labeling on rear of unit with directions for proper connection
- Lightweight and compact

REFRIGERANT RECOVERY CAPABILITY	
Refrigerants	R-12, R-22, R-114, R-134a, R-401a, R-401b, R-401c, R-402a, R-402b, R-404a, R-406a, R-407a, R-407b, R-407c, R-407d, R-408a, R-409a, R-410a, R-411a, R-411b, R-412a, R-500a, R-502b, R-507, R-509 *Not for use with R-11, R-113 or R-123*
RECOVERY RATES (AHRI CERTIFIED)	
Refigerant R-22	Vapor Recovery Rate: 0.35 lbs./min. (0.16 kg/min.) Liquid Recovery Rate: 4.36 lbs./min. (1.98 kg/min.) Liquid Push / Pull: 13.45 lbs./min. (6.10 kg/min.)
Refrigerant R-134a	Vapor Recovery Rate: 0.24 lbs./min. (0.11 kg/min.) Liquid Recovery Rate: 3.46 lbs./min. (1.57 kg/min.) Liquid Push / Pull: 11.24 lbs./min. (5.10 kg/min.)
Refrigerant R-410a	Vapor Recovery Rate: 0.31 lbs./min. (0.14 kg/min.) Liquid Recovery Rate: 3.26 lbs./min. (1.48 kg/min.) Liquid Push / Pull: 16.29 lbs./min. (7.39 kg/min.)
VACUUM SPECIFICATIONS	
Compressor Type	0.8 HP High Performance Oil-less
Vacuum Rating	>15 inHg
High Pressure Limit	550 PSI (37.9 bar)
OTHER SPECIFICATIONS	
Power Source	110/120 VAC, 1 Phase, 50/60 Hz, 8 Amps 220-230 VAC, 1 Phase, 50/60 Hz, 4 Amps 240 VAC, 1 Phase, 50/60 Hz, 5 Amps
Operating Temperature	32° - 104°F (0° - 40°C)
Weight	28 lbs. (12.7 kg)
Warranty	1 year, over-the-counter

ORDERING INFORMATION	
2006-3800	Stinger® 120V with North American Plug
2006-3801	Stinger® 120V with 80% Shut-Off, North American Plug
2006-3820	Stinger® 220-230V with "F" type/7 plug
2006-3821	Stinger® 220-230V with "K" type plug
2006-3811	Stinger® 220-230V with 80% Shut-Off (with pigtail plug only)
2006-3808	Stinger® 240V with Aus. plug
2090-0091	Optional 80% Shut-Off Kit

MODEL 3600 / MODEL 3700



For commercial refrigerant recovery applications, the rugged Model 3600 and Model 3700 are high performance machines with twice the capacity and faster recovery than competitive units. With 0.5 hp (Model 3600) or 1.0 hp (Model 3700) oil-less proprietary high performance compressors, these workhorses recover vapors and liquids at unsurpassed AHRI performance certified rates.



- Recovers ***all*** commonly used refrigerants including R-410A
- 550 PSI high pressure cut-off, high pressure gauges
- LED system status display
- Rugged and reliable
- Automatic shut-off when evacuation is complete
- Self purge and vacuum shut-off
- Hi-low compressor head and valves
- Simple operation / purges clean
- Contains integrated sight glass
- 3/8" ports for faster, high-volume refrigerant recovery

		MODEL 3600	MODEL 3700
REFRIGERANT RECOVERY CAPABILITY			
Refrigerants		All refrigerants except R-11, R-113 and R-123	
SAMPLE RECOVERY RATES (AHRI CERTIFIED)			
R410A	Vapor Recovery Rate:	0.42 lbs./min. (0.19 kg/min.)	0.84 lbs./min. (0.38 kg/min.)
	Liquid Recovery Rate:	3.3 lbs./min. (1.5 kg/min.)	9.37 lbs./min. (4.25 kg/min.)
	Push/Pull Recovery Rate:	15.65 lbs./min (7.1 kg/min.)	53 lbs./min (24.04 kg/min.)
R22	Vapor Recovery Rate:	0.37 lbs./min. (0.17 kg/min.)	0.75 lbs./min. (0.34 kg/min.)
	Liquid Recovery Rate:	4.96 lbs./min. (2.25 kg/min.)	8.31 lbs./min. (3.77 kg/min.)
	Push/Pull Recovery Rate:	13.01 lbs./min (5.9 kg/min.)	50.51 lbs./min (22.91 kg/min.)
R134A	Vapor Recovery Rate:	0.29 lbs./min. (0.13 kg/min.)	0.57 lbs./min. (0.26 kg/min.)
	Liquid Recovery Rate:	3.86 lbs./min. (1.75 kg/min.)	6.12 lbs./min. (2.77 kg/min.)
	Push/Pull Recovery Rate:	11.84 lbs./min (5.37 kg/min.)	41.7 lbs./min (18.92 kg/min.)
VACUUM SPECIFICATIONS			
Compressor Type		0.5 HP High Performance Oil-less Reciprocating	1.0 HP High Performance Oil-less Reciprocating
Vacuum Rating		13" Hg+	
High Pressure Limit		550 PSI (37.9 bar)	
OTHER SPECIFICATIONS			
Power Source		115 VAC, 50/60 Hz	115 VAC, 50/60 Hz 230 VAC, 50/60 Hz
Weight		35 lbs. (15.9 kg)	47 lbs. (21.3 kg)
Dimensions		12" x 13" x 7.5" (30.5 cm x 33 cm x 19 cm)	12" x 14.25" x 8.75" (30.5 cm x 36.2 cm x 22.3 cm)
Self Purging System		No hose changes	
80% Shut-Off		Optional	

AHRI performance certifications can be viewed online at:
www.MyBacharach.com/FM3600.htm or at
www.MyBacharach.com/FM3700.htm

ORDERING INFORMATION

2000-3600	Model 3600 410A Refrigerant Recovery Unit
2000-3601	Model 3600 410A-S Refrigerant Recovery Unit w/80% Shut-off
2000-3611	Model 3600 R-S Refrigerant Recovery Unit w/80% Shut-off Feature
2000-3700	Model 3700 Refrigerant Recovery Unit
2000-3707	Model 3700 Refrigerant Recovery Unit (220V)
2000-3701	Model 3700-S Refrigerant Recovery Unit w/80% Shut-off Feature

OPTIONAL ACCESSORY

2002-0081	Optional 80% Shut-Off Kit

R·22id



The R•22id is a compact handheld refrigerant identifier that verifies the presence and quality of R22 refrigerant in HVAC/R air conditioning systems and tanks. It delivers fast and accurate refrigerant identification to avoid potential damage to your air conditioning service equipment and business from refrigerant contamination. With a simple, one button operation, system contents can be identified and verified in less than five minutes with automatic step-by-step indication of the gas sampling process.

The Bacharach Advantage:

- Compact and lightweight design
- Simple one-button operation
- Step-by-step user indication of gas sampling process
- Quick PASS or FAIL result

REFRIGERANT IDENTIFIER CAPABILITY	
Detection Principle	Non-Dispersive Infrared (NDIR); Single Detector
Refrigerant	R22
Accuracy	PASS/FAIL - 95% Pure R22
OPERATING RANGES	
Operating Temperature Range	50˚to 113˚F (10˚ to 45˚C)
Operating Humidity Range	0-95% RH Non-Condensing
OTHER SPECIFICATIONS	
Size	7" h x 4.25" w x 2.25 d (17.78 cm x 10.8 cm x 5.72 cm)
Weight	2 lbs. (0.91 kg)
Body Materials	Durable ABS housing with molded rubber boot
User Interface	Membrane Type Keypad with LED Visual Indicators and function key
Power	9 Volt Alkaline (Optional 110/220 VAC)
Certifications	UL, CE Mark
Warranty	1 year

ORDERING INFORMATION	
2100-8000	R•22id
2100-0001	R•22id Oil Restrictor Hose and Brass Restrictor
2100-0002	R•22id Optional A/C Adapter (110/220 VAC)

Pur·Chek™



Pur•Chek™ is smarter and faster than any refrigerant identifier used in the industry today. Its compact size and ergonomic design makes testing easy and it utilizes non-dispersive infrared (NDIR) technology to determine the weight concentrations of R-12, R-1134a, R-22, hydrocarbons and air. It also features 'Blend-Chek' analytical software which quickly and accurately indicates the presence of R-410a blend refrigerant.

- Accurately determines refrigerant purity
- Fast 60-second test time
- Large display clearly shows results
- Optional built-in printer

Pur·Chek Pro™

The all new Pur•Chek™ Pro is the ultimate HVAC/R diagnostic refrigerant analyzer that enables fast and accurate testing of the widest range of refrigerants ever offered in a portable instrument. Pur•Chek™ Pro identifies more than a dozen HVAC/R refrigerants and provides a complete component breakdown of refrigerant blend ratios that can be printed out with the built-in printer.



- Oil contamination resistant
- Composition breakdown of more than a dozen refrigerants
- Internal thermal printer provides on-the-spot documentation
- Remote software updates for new refrigerants

Pur-Chek™ Specifications

DETECTION PRINCIPAL

Non-Dispersive Infrared (NDIR) Dual Detectors with Dual Filters

REFRIGERANT IDENTIFIER CAPABILITY

R-12, R-22, R-134a and Hydrocarbons
will indicate presence of R410a
Accuracy: +/-1% for measured refrigerants

OPERATING TEMPERATURE

40° to 130°F (4°C - 54°C)

RESPONSE TIME

60 seconds

TEST SAMPLE

5g per test / test pressure 50 psi - 300 psi
Sample gas extraction: Pressure from cylinder or system

OTHER SPECIFICATIONS

Sample Hose	¼" flare
Power	110/220 VAC Power Adapter 12-15V DC Optional Battery Pack (Internal)
Size	8.25" x 15.5" x 3.5" (20.95 cm x 39.37cm x 8.89 cm)
Weight	8 lbs. (3.63 kg)
Certifications	UL. cUL, CE Mark
Warranty	1 year

ORDERING INFORMATION

2100-8001	Pur·Chek™
2100-8002	Pur·Chek™ with Printer

OPTIONAL ACCESSORIES

2100-0007	Optional Rechargeable Battery Kit for Pur·Chek™
2100-0012	Spare Rechargeable Battery Kit for Pur•Chek™
2100-0006	Replacement Sample Filter for Pur•Chek™
2100-0005	Pur•Chek™ Hose Assembly
2100-0003	Printer Paper for Pur•Chek™ (1 roll)

Pur-Chek™ Pro Specifications

DETECTION PRINCIPAL

Non-Dispersive Infrared (NDIR) Single Detectors with 13 unique Filters

REFRIGERANT ANALYZER CAPABILITY

R-22, R-134a, R-404a, R-407c, R-410a, Hydrocarbons and more. Accuracy: +/-1 to 2% for measured refrigerants

OPERATING TEMPERATURE

50° to 113°F (10°C - 45°C)

RESPONSE TIME

<3 minutes

TEST SAMPLE

5g per test / test pressure 50 psi - 500 psi
Sample gas extraction: Pressure from cylinder or steam

OTHER SPECIFICATIONS

Sample Hose	¼" flare
Power	110/220 VAC Power Adapter 12-15V DC Optional Battery Pack (Internal)
Size	8.25" x 15.5" x 3.5" (20.95 cm x 39.37cm x 8.89 cm)
Weight	8 lbs. (3.63 kg)
Certifications	UL. cUL, CE Mark
Warranty	1 year

ORDERING INFORMATION

2100-8003	Pur·Chek™ Pro

OPTIONAL ACCESSORIES

2100-0007	Optional Rechargeable Battery Kit for Pur·Chek™
2100-0012	Spare Rechargeable Battery Pack for Pur·Chek™
2100-0006	Replacement Sample Filter for Pur·Chek™
2100-0008	Pur·Chek™ Pro Low Pressure Vapor Sample Hose
2100-0010	Pur·Chek™ Pro Low Pressure Sample Hose Filter
2100-0009	Pur·Chek™ Pro High Pressure Liquid Sample Hose Assy.
2100-0003	Printer Paper for Pur•Chek™ (1 roll)

Maintenance Tools

Vacuum Pump



2002-0005
- QV5 (24.7lbs.) - 5.3CFM
- Two-stage rotary vane pump
- 1/4" and 3/8" flare and 1/2" ACME intake ports
- Light, compact and well balanced
- High performance vacuum, HP and CFM ratings for all A/C and refrigeration applications
- 110 VAC / 60 Hz
- One year warranty

2002-0001
- QV2 (19.4lbs.) - 1.7CFM

CS100 Charging Scale



2010-0000
- Auto zero
- Tethered display with flip-up stand
- Adjustable leveling feet with built-in level indicator
- Handles a wide range of both standard and recovery cylinders up to 330 lbs. (150 kg)

Manifold Sets

2002-4000
- MS040 manifold set with sight glass R12/22/134a with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-handed wheels and 1/4" flare fittings. Gauge pressure: 0-250 PSI and 0-800 PSI. Hose pressure: 800 PSI Max W.P. and 2,500 PSI burst pressure

2002-4300
- MS430 manifold set with sight glass R410a with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-handed wheels and 1/4" flare fittings. Gauge pressure: 0-500 PSI and 0-800 PSI. Hose pressure: 800 PSI Max W.P. and 4,000 PSI burst pressure

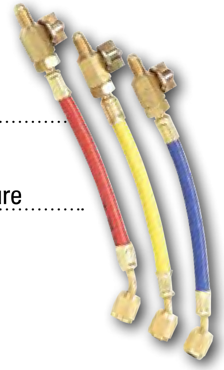
2002-4350
- MS435 4-valve manifold R-410A

2002-4375
- MS437 4-valve manifold R-12/22/134a

2002-5000
- MS050 manifold set R-12/22/134a with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-hand-wheels and 1/4" flare fittings. Gauge pressure: 0-250 PSI and 0-500 PSI. Hose pressure: 500 PSI Max W.P. and 2,500 PSI burst pressure



Ball Valve Hose Set



- 2002-0003 • BV3 Ball Valve Hose Set R-12/22/134a with three hoses (R/Y/B), 6" length and 1/4" flare fittings, hose pressure: 500 PSI Max W.P. and 2,500 PSI burst pressure
- 2002-0040 • BV410A Ball Valve Hose Set 410a with three hoses (R/Y/B), 6" length and 1/4" flare fittings, hose pressure: 800 PSI Max W.P. and 4,000 PSI burst pressure



Hose Set

- 2002-4600 • HS460 Hose Set R410a with three hoses (R/Y/B) 60" length and 1/4" flare fitting. Hose pressure: 800 PSI Max W.P. and 4,000 PSI burst pressure
- 2002-4700 • MS470 Hose Set R12/22/134a with three hoses (R/Y/B) 60" length and ¼" flare fitting. Hose pressure: 500 PSI Max W.P. and 2,500 PSI burst pressure

Flaring and Cutting Kit

- 2002-6400 • HT1226 Flaring and Cutting Kit, includes (1) tubing cutter (1/8" to 1 1/8"), and (1) flaring tool (1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8") all in a hard carrying case
- 2002-6500 • HT278 Flaring and Cutting Kit, includes (1) tubing cutter (1/8" to 1 1/8"), flaring tool with (2) flares (1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4"), (5) swaging adapters (3/16", 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4") and (1) refrigeration wrench with 4 square openings (3/16", 1/4", 5/16", 3/8") all in a hard carrying case





Tubing Cutter

- 2002-0780 • HT780 tubing cutter, capacity 1/8" to 7/8" O.D. tubing
- 2002-1818 • HT1818 tubing cutter, aluminum alloy body, chrome plated with spare cutter wheel. Capacity 1/8" to 1 1/8" O.D. tubing
- 2002-1878 • HT1878 tubing cutter, zinc plated finish, capacity 1/8" to 5/8" O.D. tubing

Flaring and Burnishing Tool



2002-0525 • HT525 flaring and burnishing tool, for 3/16" to 5/8" O.D. tubing



Flaring Tool

2002-7100 • HT195 Flaring Tool (7 sizes) for 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8" O.D. tubing

Flaring Tool



2002-6100 • HT500 flaring tool for 3/16" 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing



Capillary Cutter

2002-8000 • HT128 capillary cutter



Telescopic Inspection Mirrors

2002-0300 • HT3IM telescopic inspection mirrors, set of 4



Inner / Outer Reamer

2002-6900 • HT208 Inner/Outer Reamer for 1/8" to 1 5/8" tubing

PVC Pipe Cutter



2002-2120 • HT212 PVC pipe cutter, capacity up to 1 5/8”



Tubing Bender

2002-6700 • HT666 3-in-1 Tubing Bender 180°
For 1/4", 5/16" and 3/8" O.D. tubing

Coupler



2002-1340 • Lowside R134A coupler

2002-1341 • Highside R134A coupler



Valve Core Removal Tool

2002-0125 • HTVCRT double ended valve core removal tool

Refrigeration Ratchet Wrench



2002-0122 • HTRW122 refrigeration ratchet wrench with 4 square openings, 3/16”, 1/4”, 5/16” and 3/8”

2002-0123 • HTRW123 refrigeration ratchet wrench with 3/16” and 1/4” square openings and 1/2” and 9/16” hex openings



Fin Straightener

2002-6000 • HT351 Fin Straightener (available in 6 sizes)

A/C Refrigeration Family of Products	Stinger®	MODEL 3600	MODEL 3700
			
WHAT THEY DO			
Recovers All Commonly Used Refrigerants Including R410A	✔	✔	✔
Recovers Vapor and Liquid	✔	✔	✔
HOW DO THEY WORK?			
Vacuum Shut-Off Switch	✔	✔	✔
Oil-less Compressor	✔	✔	✔
Single Piston Compressor	✔	✔	
Dual Piston Compressor			✔
Filter Dryer		FM3600R-S	
SPEED OF RECOVERY (LB/MIN)-R410A			
Liquid Refrigerant Recovery Rate	3.25 lbs. / min.	3.3 lbs. / min.	9.4 lbs. / min.
Vapor Refrigerant Recovery Rate	.31 lbs. / min.	.42 lbs. / min.	.84 lbs. / min.
WHAT THEY FEATURE			
LED Status Light	✔	✔	✔
Carrying Strap	✔	✔	✔
Easy to Read Gauges	✔	✔	✔
Weight	28 lbs.	35 lbs.	47 lbs.
Size	11"H x 17"L x 9.5"W	12"H x 13"L x 7.5"W	12"H x 14.25"L x 8.75"W
Warranty	1-Year, Over the Counter	1-Year	1-Year
POWER SOURCE			
Power Source	110-120 VAC 1 Phase 50/60 HZ, 8 Amps 220-230 VAC	115 VAC 50/60 HZ, 230 VAC 50/60 HZ, 100 VAC 50/60 HZ	115 VAC 50/60 HZ 230 VAC 50/60 HZ, 100 VAC 50/60 HZ
WHAT CAN BE ADDED			
80% Tank Shut-Off	✔	✔ Comes standard with FM3600R-S	✔ Comes standard with FM3700-S
CERTIFICATIONS			
AHRI Performance Certification	✔	✔	✔
CE Mark	✔		



BACHARACH'S SAFETY & SPECIALTY FAMILY OF PRODUCTS

Bacharach's broad experience and exceptional capabilities in the design and manufacture of gas monitors and analyzers over the years has led to the development of many special purpose products. These products often serve as tools in safety systems as well as various areas of performance test and measurement. Following are a few examples of specialty Bacharach products. The instruments included in this section are designed for the measurement of carbon monoxide, carbon dioxide and sulfur hexafloride. These units serve unique purposes with a heavy emphasis on safety. Feel free to contact Bacharach if your monitoring need is out of the ordinary.

- Residential appliances, home inspection (CO)
- Food processing, pipe leak testing, flue gas (O_2)
- Safety and indoor air quality (CO_2)
- Incubators, medical gases (CO_2)
- Horticulture, food processing (CO_2)
- Air velocity and temperature meters
- Supermarket Refrigerant Leak Monitoring and Pinpointing (CFCs, HCFCs, HFCs and CO_2)

Monoxor® III / Oxor® III



Single gas monitors for Carbon Monoxide or Oxygen. Ideal for indoor air quality or food processing. These hand-held battery-operated monitors are versatile and easy to use. Each unit comes with a pump and stainless steel probe assembly for remote sensing.

- Easy and affordable
- Full 4 digit display
- 18 hour battery life
- Low battery symbol indicator

Monoxor® III:

- Measures CO levels between 0 and 2,000 ppm in ambient air and stack gasses
- Includes 4 AA batteries, probe and hose assembly, carrying strap, instruction manual and hard carrying case
- Monoxor® III Kit includes 8 AA batteries, probe and hose assembly, carrying strap, instruction manual, hard carrying case and IrDA printer

Oxor® III:

- Measures and displays O_2 levels between 0 and 20.9%
- Includes 4 AA batteries, probe, hose assembly and hard carrying case
- Oxor® III Kit includes 8 AA batteries, probe and hose assembly, carrying strap, instruction manual, hard carrying case and IrDA printer

Monoxor® III Specifications

SENSING TECHNOLOGY	
	Electrochemical sensor
GASES MEASURED / RANGE (RESOLUTION)	
Carbon Monoxide	0-2000 ppm (in 1 ppm increments)
WARM-UP TIME	
	10 or 60 seconds (depending on CO channel zero setup)
DISPLAY	
	Four-digit LCD display with backlight
OPERATING TEMPERATURE	
Instrument	32°-104°F (0 - 40°C)
Probe	1000°F (535°C) at 5" insertion
OTHER SPECIFICATIONS	
Power	Four 'AA' alkaline batteries (included)
Battery Life	Up to 18 hours continuous operation
Size	7.5" H x 3.1" W x 2.1" L (19cm H x 7.9cm W x 5.3cm L)
Weight	16 oz (0.45kg) with batteries
Warranty	2 years, including sensor

Oxor® III Specifications

SENSING TECHNOLOGY	
	Electrochemical sensor
GASES MEASURED / RANGE (RESOLUTION)	
Oxygen	0 - 20.9% (in 0.1% increments)
WARM-UP TIME	
	60 seconds
DISPLAY	
	Four-digit LCD display with backlight
OPERATING TEMPERATURE	
Instrument	32°-104°F (0 - 40°C)
Probe	1000°F (535°C) at 5" insertion
OTHER SPECIFICATIONS	
Power	Four 'AA' alkaline batteries (included)
Battery Life	Up to 18 hours continuous operation
Size	7.5" H x 3.1" W x 2.1" L (19cm H x 7.9cm W x 5.3cm L)
Weight	16 oz (0.45kg) with batteries
Warranty	2 years - instrument; 1 year - sensor

ORDERING INFORMATION

0019-8104	Monoxor® III CO Monitor
0019-8105	Monoxor® III CO Kit

OPTIONAL ACCESSORIES

0024-1254	Universal AC Power Adapter
0024-1400	IrDA Printer w/ Disposable Batteries
0024-1310	Printer Paper (5 rolls)
0007-1644	Filter Element for Water Trap (pkg of 3)

ORDERING INFORMATION

0019-8112	Oxor® III Oxygen Monitor
0019-8113	Oxor® III Oxygen Kit

OPTIONAL ACCESSORIES

0024-1254	Universal AC Power Adapter
0024-1400	IrDA Printer w/Disposable Batteries
0024-1310	Printer Paper (5 rolls)
0011-0121	Wool Saturator for Probe Tube (pkg of 10)

Snifit®



Bacharach's affordable Snifit monitors accurately measure carbon monoxide levels in a variety of applications. Small and lightweight, yet durable for service technicians, the Snifit quickly and precisely measures CO levels from 0-1,999 ppm. With simple 3-button operation the Snifit is easy to use and maintain.

0019-7060

- Ideal for ambient air safety checks on residential appliances, home inspection and HVAC Service
- Measures and displays Carbon Monoxide 0-1,999 ppm, 1 ppm resolution
- Small enough to fit in your pocket
- Backlight for low light conditions
- Three button operation
- Low battery indicator

SENSING TECHNOLOGY	
Electrochemical sensor (CO)	
GAS MEASURED / RANGE (RESOLUTION)	
Carbon Monoxide	0-1999 ppm (in 1 ppm increments)
DISPLAY	
Four-digit LCD display with backlight	
OPERATING TEMPERATURE	
Instrument	32°-104°F (0 - 40°C)
OTHER SPECIFICATIONS	
Power	One 9 volt battery
Battery Life	6 months with normal duty cycles
Size	5.5" H x 2.0" W x 1.57" L (14 cm H x 5 cm W x 4 cm L)
Weight	8 oz (0.23kg) with battery
Warranty	1 Year

IEQ Chek™ Indoor Environmental Quality Monitor



IEQ Chek™ is a versatile multi-sensor instrument for measuring, monitoring and recording indoor environments for air quality diagnosis. With its 7-sensor capacity, the new IEQ Chek™ measures temperature, relative humidity, and up to 5 additional plug-and-play 'smart' sensors, including carbon dioxide (CO_2), carbon monoxide (CO), oxygen (O_2), formaldehyde (HCHO), total volatile organic compounds (TVOCs), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), ammonia (NH_3), hydrogen sulfide (H_2S) and combustible gases. Large multi-line backlit LCD display with simultaneous viewing of all installed sensors, battery life, pump indicator and calibration status.

- Versatile handheld instrument with flexible 7-sensor capacity
- Ideal for indoor environmental quality measurements
- On-board sensors for temperature and relative humidity; add up to 5 additional plug-and-play 'smart' sensors - available with on-board pump for sampling air
- Stores over one million data points with SD flash card
- Download data option via USB connection to a PC using Bacharach's IQ™ Chek software

IEQ Chek™ Specifications

GASES DETECTED	
	See product description above or ranges below
DETECTION PRINCIPLE	
	Non-Dispersive Infrared (NDIR), Electrochemical, Photoionization Detector (PID)
OTHER MEASUREMENTS	
Temperature	23° F to 131° F (-5° C to 55° C) / 0.1° Resolution
Relative Humidity	0-99.9% Non-Condensing / 0.1% Resolution
MECHANICAL SPECIFICATIONS	
Power	3 AA NiMH Rechargeable or Alkaline Batteries 6 VDC Power Adapter (N. Am. or Int'l.)
Size	7.75" x 3.87" x 3.06" (19.7 cm x 9.8 cm x 7.8 cm)
Weight	20 oz. (567 g) including batteries
Certifications	CE Mark, EN 61010-1:2001, EM/RFI EN 50270:2006
Warranty	2 years on instrument, 1 year on CO_2 sensor

ORDERING INFORMATION

1510-1003	IEQ Chek™ CO_2 (0-5,000 ppm), CO, Diffusion, Temp, RH
1510-1302	IEQ Chek™ CO_2 (0-5,000 ppm), CO, NO_2, Pump, Temp, RH
1520-0001	IEQ Chek™ CO_2 (0-10,000 ppm), Diffusion, Temp, RH
1520-1002	IEQ Chek™ CO_2 (0-10,000 ppm), CO, Pump, Temp, RH
1540-2002	IEQ Chek™ CO_2 (0-20% vol), O_2, Pump, Temp, RH
1510-1403	CO_2 (0-5,000 ppm), CO, HCHO, Diffusion, DataLogging
1512-1008	CO_2 (0-5,000 ppm), TVOC (0-300 ppm), CO, Pump, Ext. Battery, DataLogging
1530-0001	CO_2 (0-5%), Diffusion
1540-2002	CO_2 (0-20%), O2, Pump
1509-0001	IQ Chek™ DataLogging Option (Includes 2GB flash card, cable, software & SD card reader)
1509-0003	Replacement Remote Gas Sample Probe; 10" probe with 30" hose (Not including Temp. & RH)
1509-0021	High Humidity Gas Sample Probe; 'Smart' Sensor readings

**For all available sensor configurations, call the factory or go to: www.mybacharach.com/ieq-chek.htm*

GAS MEASURED	SENSOR TYPE	RANGE	RESOLUTION	ORDERING INFORMATION
Carbon Monoxide (CO)	Electrochemical	0 - 50 ppm	1 ppm	1510-1054
Carbon Dioxide (CO_2)	NDIR (Infrared)	0 - 5,000 ppm	1 ppm	1510-1050
	NDIR (Infrared)	0 - 10,000 ppm	1 ppm	1510-1075
	NDIR (Infrared)	0 - 5% volume	0.1% vol.	1510-1051
	NDIR (Infrared)	0 - 20% volume	0.1% vol.	1510-1076
	NDIR (Infrared)	0 - 100% volume	0.1% vol.	1510-1053
Combustible Gases/Vapors	NDIR (Infrared)	0 - 5% vol (CH_4)	0.1% vol.	1510-1052
Nitrogen Dioxide (NO_2)*	Electrochemical	0 - 10 ppm	0.1 ppm	1510-1055
Nitric Oxide (NO)*	Electrochemical	0 - 100 ppm	0.2 ppm	1510-1056
Oxygen (O_2)	Electrochemical	0 - 25% volume	0.1% vol.	1510-1057
Ammonia (NH_3)*	Electrochemical	0 - 50 ppm	1 ppm	1510-1059
Hydrogen Sulfide (H_2S)*	Electrochemical	0 - 50 ppm	0.1 ppm	1510-1063
Sulfur Dioxide (SO_2)*	Electrochemical	0 - 20 ppm	0.1 ppm	1510-1067
Formaldehyde (HCHO or CH_2O)	Electrochemical	0 - 10 ppm	0.01 ppm	1510-1068
Total Volatile Organic Compounds (TVOCs)	Photo-Ionization Detector	0 - 300 ppm	1 ppm	1510-1073
	Photo-Ionization Detector	0 - 50 ppm	0.02 ppm	1510-1074

**Pump version recommended for best sensor performance*

Comfort Chek® 400 Portable Air Quality Monitor

Comfort Chek® 400 is an affordable, easy to use indoor air quality (IAQ) monitor designed with three sensors that simultaneously measure and record temperature, relative humidity and carbon dioxide (CO_2) levels in the air. The large, backlit LCD displays all three sensor readings as well as battery status and provides easy readability in dark environments. Powered by alkaline batteries or with supplied wall adapter.

- Automatically calculates and displays MIN, MAX, STEL and TWA values for CO_2
- Quick and easy calibration for CO_2 and RH
- Offers around the clock air quality monitoring in office environments or public facilities



Comfort Chek® 400 Specifications

GASES DETECTED	
	Carbon Dioxide
DETECTION PRINCIPLE	
	Non-Dispersive Infrared (NDIR)
OTHER MEASUREMENTS	
Temperature	14° F to 140° F (-10° C to 60° C) 0.1° Resolution
Relative Humidity	0-99.9% Non Condensing / 0.1% Resolution
Range Resolution	CO_2 = 0-5,000 ppm / 1 ppm increments
Accuracy	CO_2 = ±30 ppm ±5% of reading
OPERATING RANGES	
Temperature	32° F to 122° F (0° C to 50° C)
Humidity	0-95% RH Non-Condensing
MECHANICAL SPECIFICATIONS	
Warm Up Time	30 seconds
Power	4 AA Alkaline Batteries - disposable only (included) 9 VDC 110 VAC Wall Adapter (N.Am. Plug) (included for power only - not for charging)
Size	6.6" x 2.75" x 1.25" (17 cm x 7 cm x 3.2 cm)
Weight	7.1 oz. (200 g) including batteries
Certifications	CE Mark
Warranty	2 years on instrument and CO_2 sensor

ORDERING INFORMATION

1580-8001	Comfort Chek™ 400 Kit: instrument comes with batteries, wall adapter (N.Am. plug + 3 international adapters), user manual and hard carrying case
1509-0007	Replacement Wall Adapter

PGM-IR Portable Gas Analyzer



Patent # 6,590,690

The PGM-IR is an advanced portable monitor that uses long-life non-dispersive infrared (NDIR) sensor technology for analyzing and checking low-level gas leaks. The unit can identify and pinpoint very small levels of refrigerants, nitrous oxide or carbon dioxide gas in ambient air, showing real-time concentrations in either parts per million (ppm) or elapsed time weighted average (TWA) with a resolution down to 1 ppm.

The unit self-calibrates in 4 minute intervals by drawing ambient air through its filter to provide a good "zero" baseline, enabling the monitor to be used in contaminated environments without affecting the readings of the target gas. Additional features include datalogging of up to 200 readings, and a leak check mode with "click-rate" audible / visual alarms.

- Detection and measurement of CFC, HFC and HCFC refrigerants, as well as CO_2, N_2O and SF_6 gases
- Pinpoint low-level leaks with display and alarm
- Locates leaks in contaminated or high-ventilation areas
- Applications include refrigerant gas detection, trace gas analysis and medical monitoring
- Two-year warranty
- Instrument comes with battery pack, probe, charger and soft case with shoulder strap
- Up to 12 hours operation on fully charged battery
- LCD screen displays real-time gas concentrations

The PGM-IR is not designed or certified for intrinsic safety and may not be suitable for use in certain environments.

SENSING TECHNOLOGY

	Non-Dispersive Infrared (NDIR)

GASES DETECTED

Refrigerants	CFC, HFC and HCFC unit: R-11, R-12, R-21, R-22, R-23, R-113, R-114, R-123, R-124, R-125, R-134A, R-227, R-236FA, R-245FA, R-401A, R-402A, R-402B, R-404A, R-407A, R-407C, R-408A, R-409A, R-410A, R-422A, R-422D, R-424A, R-426A, R-427A, R-438A, R-500, R-502, R-503, R-507, R-508B, FA188, FC72, H-1211, H-1234YF, H-1301, H-2402, HFP, N-1230
Carbon Dioxide (CO_2)	
Nitrous Oxide (N_2O)	
Sulfur Hexafloride (SF_6)	

MEASUREMENT RANGE/ RESOLUTION

Refrigerant Gases	0-10,000 ppm displayed in 1 ppm increments
Carbon Dioxide (CO_2)	0-100,000 ppm displayed in 1 ppm increments
Nitrous Oxide (N_2O)	0-1,000 ppm displayed in 1 ppm increments
Sulfur Hexafloride (SF_6)	0-1,000 ppm displayed in 1 ppm increments

RESPONSE TIME

	90% of response within 5 seconds; 100% in 7 seconds

WARM UP TIME

CO_2, Refrigerant gases:	5 minutes
N_2O and SF_6:	15 minutes

OTHER SPECIFICATIONS

Flow Rate	1 L/min typical
Power	Li-Ion rechargeable battery with battery life indicator
Operating Temperature Range	32 to 122°F (0 to 50°C)
Storage Temperature Range	–4 to 122°F (–20 to 50°C)
Operating Humidity Range	5 to 90% RH, non condensing
Size	8"D x 19"W x 5"H (20.3 cm x 48.3 cm x 12.7 cm)
Weight	6 lbs. 12oz (3.07 kg)
Leak Check Mode w/ Probe	Internal audible alarm, programmable Visual alarm indicator
Warranty	2 Years (excluding contamination)

ORDERING INFORMATION

3015-5696	PGM-IR Analyzer: HFC, CFC, HCFC Refrigerant Gases (without internal purge-air bladder)
3015-8001	PGM-IR Analyzer: Carbon Dioxide (CO_2)
3015-4790	PGM-IR Analyzer: Nitrous Oxide (N_2O)
3015-5148	PGM-IR Analyzer: Sulfur Hexafloride (SF_6)*
3015-5739	Replacement Battery Pack
3015-5764	Replacement Battery Pack with Carry Case

*Special Order Only

IAQ Tools



Sling Psychrometer

The Sling Psychrometer accurately determines percent relative humidity without the necessity of consulting complex tables. The Sling Psychrometer contains a slide rule calculator which correlates wet and dry bulb thermometer indications for direct reading of relative humidity.

0012-7012	• +25°F to +120°F Red Spirit Filled
0012-7043	• -5° to +50°C Red Spirit Filled
0012-0266	• Thermometer (+25°F + 120°F Red Spirit Filled)
0012-0327	• Thermometer (-5° to +50°C Red Spirit Filled)
0012-0011	• Wick Replacement Kit - contains 4 wicks
0006-5456	• Cap



Humidity-Temperature Meter

2002-1800 • Humidity-temperature meter with case



Anemometer Model TH4200

2042-0000
- 0-8,800 FPM
- Coiled Cable Vane Head
- Temperature: 32°F – 140°F (0°C – 60°C)
- Data hold and low battery indication
- Sensitive for low/high air velocity
- Also displays in Km/hr, Knots, M/S
- Includes soft carrying case and battery



Safety & Specialty Products	Snifit®	Monoxor® III	Oxor® III	IEQ Chek™	Comfort Chek® 400
WHAT THEY DO					
Measure Indoor Air Quality	✔	✔	✔	✔	✔
Function as a Personal Protection Device				✔	
Function as a Test Instrument	✔	✔	✔	✔	✔
WHAT THEY MEASURE					
Carbon Monoxide (CO)	0-1,999 PPM	0-2,000 PPM		0-50 PPM	
Carbon Dioxide (CO_2)				0-5,000 PPM 0-10,000 PPM 0-5% VOL 0-20% VOL 0-100% VOL	0-5,000 PPM
Oxygen (O_2)			0-20.9%	0-25% VOL	
Formaldehyde (HCHO)				0-10 PPM	
Total Volatile Organic Compounds (TVOCs)				0-300 PPM 0-50 PPM	
Nitrogen Dioxide (NO_2)				0-5 PPM	
Nitric Oxide (NO)				0-100 PPM	
Nitrous Oxide (N_2O)				--	
Sulfur Dioxide (SO_2)				0-20 PPM	
Ammonia (NH_3)				0-50 PPM	
Hydrogen Sulfide (H_2S)				0-50 PPM	
Combustible Gases				0-100% LEL	
Temperature				23°-131°F	14°-140°F
Relative Humidity				0-99.9%	0-99.9%
MEASUREMENT CHARACTERISTICS					
Response Time (Seconds to 90%)	<30	<40	<40	<40	30
Warm Up Time (Seconds)	30	10 or 60	60	240	30
WHAT THEY FEATURE					
Digital Readout of Measurement	Backlit	Backlit	Backlit	Backlit	Backlit
Visual Alarm				✔	✔
Audible Alarm				✔	✔
Datalogging				✔	
Printer Port		IrDA	IrDA	USB	
Power Source	9V Alkaline	4 AA Alkaline	4 AA Alkaline	3 AA NiMH Rechargeable	4 AA Alkaline
Warranty	1-Year	2-Years	2-Years	2-Years	2-Years
CERTIFICATIONS					
CE-MARK	✔	✔	✔	✔	✔
EN 61010-1:2001				✔	
EM / RFI EN 50270:2006				✔	



BACHARACH'S GAS LEAK MONITOR FAMILY OF PRODUCTS

Bacharach also offers an comprehensive line of refrigerant monitors which provide a unique combination of high sensitivity, large dynamic measurement range and speed of response. Utilizing solid-state semiconductor, electrochemical and infrared sensor technologies, these single and multi-zone products allow customers point by point customization, remote communications, centralized reporting and easy maintenance. Used to detect and monitor Halogen, Ammonia, and Carbon Dioxide refrigerant gases (as well as toxic and combustible gases) found in mechanical rooms, grocery stores, hospitals and manufacturing, these units lead the industry in performance, cost of ownership, integration capabilities and cost.

Bacharach's gas leak monitor family of products are compliant with ASHRAE standard 15-2007, ETL Energy Saving Listed and meets California Code Regulations for Refrigerant Monitors. Precision low-level detection capability responds to leaks when they are small, providing early warning for detection, repair and safety; resulting in lower energy consumption and reduced refrigerant costs.

For a complete selection of fixed products and operating specifications, visit our Web site at: www.MyBacharach.com or contact a Bacharach representative at 724-334-5000 for more details.

REPLACEMENT SENSORS

0024-1616	B-Smart® Carbon Monoxide (CO) Sensor with integral NO_X filter for Fyrite® INSIGHT® Plus
0024-1467	B-Smart® Carbon Monoxide (CO) Sensor for Fyrite® INSIGHT®/InTech®
0024-1541	B-Smart® Carbon Monoxide (CO) Sensor Med. (0 - 4,000 ppm) for Fyrite® PCA®3
0024-1542	B-Smart® Carbon Monoxide (CO) Sensor High (4,001 - 20,000 ppm) for Fyrite® PCA®3
0024-1543	B-Smart® Sulfur Dioxide (SO_2) Sensor for Fyrite® PCA®3
0024-1544	B-Smart® Nitrogen Dioxide (NO_2) Sensor for Fyrite® PCA®3
0024-1545	B-Smart® Nitric Oxide (NO) Sensor for Fyrite® PCA®3
0019-7061	Carbon Monoxide (CO) Sensor for Snifit®
0024-7265	Carbon Monoxide (CO) Sensor for Fyrite® INSIGHT®/Tech/Monoxor®III/Pro/InTech®
0024-1593	Carbon Monoxide (CO) Sensor with integral NO_X filter for Fyrite® INSIGHT® Plus
0024-0997	Carbon Monoxide (CO) Sensor (High) for Fyrite® ECA 450/PCA®3/PCA®2
0024-0789	Carbon Monoxide (CO) Sensor (Low) for Fyrite® ECA 450/PCA®3/PCA®2
0024-1055	Combustible Sensor for Fyrite® ECA 450
0019-0499	Combustible Sensor for Informant® 2
0019-0575	Combustible Sensor for Leakator® Jr.
0019-0398	Combustible Gas Sensor and Resistor for Leakator® 10
0024-0881	Nitric Oxide (NO) Sensor for Fyrite® ECA/PCA®3/PCA®2
0024-1027	Nitrogen Dioxide (NO_2) Sensor for Fyrite® ECA/PCA®3/PCA®2
0024-1591	Oxygen (O_2) Long-Life Sensor for Fyrite® INSIGHT® Plus
0024-8257	Upgrade Kit: Long-Life O_2 Sensor for Fyrite® INSIGHT® Plus (one-time upgrade from O_2 to long-life O_2)
0019-0270	Ethylene Oxide (ETO) Sensor and Resistor for Leakator® 10
0024-0788	Oxygen (O_2) Sensor for Fyrite® ECA/PCA®3/PCA®2/ PCA®/INSIGHT®/INSIGHT® Plus/InTech®
0024-8106	Oxygen (O_2) Sensor for Fyrite® Tech & Oxor®III
0019-0510	Refrigerant Sensor for Informant® 2
0019-0559	Refrigerant Sensor for Tru Pointe®
3015-0486	Refrigerant Sensor for H-10G & H-10PM
0024-0998	Sulfur Dioxide Sensor, SO_2 for Fyrite® ECA/PCA®3/PCA®2

ACCESSORIES

0024-1124	20' Hose Extensions (w/Sample, Draft & Thermocouple Lines) for ECA 450/PCA®3/PCA®2/PCA®
3015-0119	Universal 120-240 VAC battery charger for H-10PM
0024-1611	AC Power Adapter (universal) for Fyrite® INSIGHT® Plus
0024-1254	AC Power Adapter (universal) for Fyrite® INSIGHT®/PCA®3/Monoxor®III/Oxor® III/Pro
0024-1404	AC Power Adapter (universal) Fyrite® PCA®2
3015-3076	Audio - Visual Alarm 120 VAC for HGM-MZ & HGM-SZ
0019-0397	Carrying Case for Leakator ®10
0019-0501	Carrying Case for Tru Pointe®
0024-7224	Compact Sample Conditioner/Probe Assembly for Fyrite® ECA 450/PCA®3/PCA®2
0024-1492	Fyrite® Recording Kit (Printer, CD and USB Cable) for Fyrite® INSIGHT® /INSIGHT® Plus
0024-1470	Fyrite® User Software CD for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®
0024-1491	Fyrite® User Software Kit (CD and USB Cable) for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®
0024-0865	Hard Carrying Case for Fyrite® PCA®3/PCA®2/INSIGHT®/ INSIGHT® Plus/InTech®/Tech/Monoxor®III/Oxor® III
0024-8214	Pressure Accessory Kit for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®

0019-3037	Probe Stop - Universal for Fyrite® Combustion Analyzers
0024-1127	Protective Rubber Boot with Magnet for Fyrite® Tech/Pro/Monoxor®III/Oxor® III
0024-1409	Protective Rubber Boot with Magnet for Fyrite® PCA®3/PCA®2
0024-1461	Protective Rubber Boot with Magnet for Fyrite® INSIGHT® /INSIGHT® Plus / InTech®
0019-0497	Protective Rubber Boot for Informant® 2
0024-8414	Thermocouple Kit, 12 inch for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT
0104-4027	Serial Cable for ECA 450
0024-1267	Soft Carrying Case for Fyrite® Tech
0024-1606	Soft Carrying Case for Fyrite® InTech®/INSIGHT®/INSIGHT® Plus
0104-1798	Thermocouple, 1 inch (for Ambient Air Temperature)
0104-1797	Thermocouple, 10 foot (for Primary Air)
0104-4032	USB Cable for Fyrite® PCA®3/PCA®2/INSIGHT®/INSIGHT® Plus
0019-0553	Probe Assembly for Tru Pointe®
0019-3091	Probe Assembly for Leakator® 10

REPLACEMENT PARTS: FILTERS

3015-3071	Inline Probe Filter for PGM-IR
3015-3125	Charcoal Purge Filter for PGM-IR
0007-1654	Hydrophobic Filter for PGM-IR
0007-1700	Inline Filter for Stinger®
0007-1563	Filter for Inlet of Gas Pump for Fyrite ®ECA 450/PCA®3/INSIGHT®
0019-3265	Water Trap/Filter Assembly for Fyrite® PCA®3/PCA®/INSIGHT®/Tech/INSIGHT® Plus/InTech®/Monoxor® III/Oxor® III
0024-1172	Water Trap/Filter Assembly for Fyrite ECA 450
3015-5135	Metal Probe Tip Filter (Package of 50) for H25-IR/H25-IR Pro
3015-5669	Internal Filter (Package of 5) for H25-IR/H25-IR Pro
0019-0509	Filter (5 Pack) for Informant® 2
0007-1598	Filter Element for Water Trap (Pkg. of 3)
0007-1644	Filter Element for Water Trap (Pkg. of 3) for Fyrite® ECA 450/PCA®3/INSIGHT®/Tech/INSIGHT® Plus/InTech®/Monoxor® III
0024-1505	Inline NO_X Filter Kit for Fyrite® INSIGHT®/InTech®/Tech/Monoxor® III

REPLACEMENT PARTS

3015-0326	14” Flexible Probe for H-10G & H-10PM
0019-0548	Battery Door for Tru Pointe®
3015-0103	Battery for H10PM
0204-0020	Battery - Coin Cell Lithium for H25-IR Pro/PGM-IR
3015-0641	Clear Probe Tip for H-10G & H-10PM
0019-0507	Combustible Probe Tip Red for Informant® 2 *(does not include sensor)*
0024-0878	Connector, Draft Female for Fyrite® ECA 450/PCA®3/INSIGHT®
0024-0877	Connector, Gas Female or Fyrite® ECA 450/PCA®3/INSIGHT®
2063-0010	High Pressure Gauge for FM3600/3700
3015-0864	Leak Reference Bottle for H-10G & H-10PM
2063-0020	Low Pressure Gauge for FM3600/3700
3015-0784	Maintenance Kit for H-10G & H-10PM
2014-0310	Pressure Switch for FM3600/3700
3015-5137	Replacement 8" Flexible Probe / Gooseneck Assembly for H25-IR Pro
3015-5099	Replacement Probe Tip for H25-IR Pro

0024-3009	Pump Assembly for Fyrite® ECA 450
0024-3073	Pump Assembly for Fyrite® INSIGHT® Plus/InTech®
0024-3048	Pump Assembly for Fyrite® INSIGHT® and Tech 60 *(for serial number **newer** than RU1025)*
0024-3049	Pump Assembly for Fyrite® INSIGHT® *(for serial number **older** than RU1025)*
0024-3020	Pump Assembly for Fyrite® Tech (*older than serial number RU1025*)/Monoxor® III/Oxor® III
0010-5057	Refill Fluid CO_2 20 & 60 % 3 Bottles Per Carton for Fyrite® Classic
0010-5100	Refill Fluid CO_2 7% 3 Bottles Per Carton for Fyrite® Classic
0010-5060	Refill Fluid O_2 21 & 60 % 3 Bottles Per Carton for Fyrite® Classic
0010-5103	Refill Fluid O_2 7% 3 Bottles Per Carton for Fyrite® Classic
0019-0473	Refrigerant Probe Tip Blue for Informant® 2 *(does not include sensor)*
0011-7052	Repair Kit CO_2 20 & 60% for Fyrite® Classic
0011-7053	Repair Kit CO_2 7% for Fyrite® Classic
0011-7054	Repair Kit O_2 21 & 60% for Fyrite® Classic
0019-0577	Battery Door for Leakator® Jr.
0019-0576	Replacement Sensor Cover for Leakator® Jr.
3015-0680	Rubber Probe Tip for H-10G & H-10PM
3015-0638	Standard Probe for H-10G & H-10PM
2063-0160	Stinger High Pressure Gauge
2063-0150	Stinger Low Pressure Gauge
3015-0781	Tune-Up Kit for H-10G & H-10PM *(includes sensor)*

CALIBRATION GAS

0051-1994	100 ppm CO, 103 L for Fyrite® PCA®2/INSIGHT/Tech/Monoxor® III/Snifit®
0024-1157	100 ppm NO_2, 58 L for Fyrite® ECA 450/PCA®2/ PCA®3
0024-1158	100 ppm SO_2, 58 L for Fyrite® ECA 450/PCA®2/PCA®3
0024-0794	1,000 ppm CO, 1,000 ppm H_2, 103 L for Fyrite® ECA 450/PCA®2/PCA®3
0051-1121	2.5% CH_4, 103 L for Fyrite® ECA 450
0024-1156	250 ppm NO, 58 L for Fyrite® ECA 450/PCA®2/PCA®3
0024-1155	4000 ppm CO, 103 L for Fyrite® ECA 450/PCA®2/PCA®3
0024-0492	500 ppm CO, 103 L for Fyrite® ECA 450/PCA®2/PCA®3/INSIGHT®/Tech/Monoxor® III
0024-7059	Calibration Kit (No Calibration Gas) with C10 Fitting and Variable Flow Regulator
0051-3288	Calibration Kit (No Calibration Gas) with CGA600 Fitting and Variable Flow Regulator

PRINTERS

0024-1400	IrDA with Disposable Batteries
0024-0887	Printer Paper (1 Roll - HP Printer)
0024-8733	Printer Paper (1 Roll - IRDA Printer)
0024-1256	Printer Paper (5 Rolls - HP Printer)
0024-1310	Printer Paper (5 Rolls - IRDA Printer)
0024-0980	Printer Paper (5 Rolls) for Fyrite® ECA 450

BACHARACH The Measurable Difference

PRODUCT	SHIPPING WEIGHT	SHIPPING DIMENSIONS
Anemometer	1 lb. 3 oz.	9" x 12.5" x 3"
Comfort Chek® 400	2 lbs.	15" x 9" x 3"
Draftrite® Draft Gauge	1 lb.	4" x 3" x 1"
IEQ Chek™	3 lbs.	9" x 12" x 4"
ECA 450	30 lbs.	18" x 13" x 10"
Fyrite® INSIGHT® Plus, InTech®, PCA® 3	6.8 lbs.	17.5" x 6" x 13"
Fyrite® Duplex Kit	13 lbs.	13" x 6" x 11"
Fyrite® Fluid (1 carton of 3 bottles)	2 lbs.	10" x 5" x 4"
Fyrite® Indicator	3 lbs.	10" x 5" x 4"
Fyrite® Refill Package	2 lbs.	13" x 6" x 11"
Fyrite® Repair Package	1 lb.	13"x 6" x 11"
Fyrite® Combustion Kit	15 lbs.	18" x 6" x 16"
H10PM, H10G	7 lbs.	12" x 10" x 8"
H25-IR Pro	18 lbs.	18" x 15" x 15"
Humidity-Temperature Meter	2 lbs.	18" x 15" x 15"
Informant® 2 Kit	3 lbs.	4" x 3" x 12"
Informant® 2 Deluxe Kit	4 lbs.	7" x 4" x 16"
Leakator® Jr.	1 lb.	13" x 8" x 5"
Leakator® 10	2 lbs.	9" x 2" x 2"
Monoxor® III, Oxor® III	3 lbs.	17" x 10" x 5"
MZF Draft Gauge	3 lbs.	7" x 5" x 9"
Portable PGM-IR Refrigerant Analyzer	12.5 lbs.	19" x 13" x 7"
Pur-Chek™	8 lbs.	16" x 16" x 7"
Pur-Chek™ Pro	8 lbs.	16" x 16" x 7"
R22id	2 lbs.	9" x 9" x 9"
Sling Psychrometer	1 lb.	12" x 9" x 6"
Snifit®	1 lb.	3" x 4" x 7"
Stinger®	28 lbs.	18" x 13" x 18"
Tru Pointe®	3 lbs.	19" x 8" x 4"
Tru Pointe® Ultra	1.5 lb.	11" x 14" x 4"
Tru Pointe® 1100	2 lbs.	16" x 18" x 6.5"
Tru Pointe® 2100	2 lbs.	16" x 18" x 6.5"
True Spot® Smoke Tester	1 lb.	9" x 8" x 9"
Recovery Unit 3600	39 lbs.	18" x 13" x 18"
Recovery Unit 3700	52 lbs.	18" x 13" x 18"
Refrigeration Wrenches (2002-0122)	5 oz.	2" x 8" x 1"
Refrigeration Wrenches (2002-0123)	8 oz.	2.5" x 9.5" x 1"
PVC Pipe Cutter	13 oz.	5" x 10.5" x 1.5"
Valve Core Removal Tool	2 oz.	3" x 5" x 1"
Manifold Sets (any)	3 lbs. 8 oz.	12.5" x 14" x 2"
R-410A Hose Set	1 lb. 14 oz.	12.5" x 14" x 2"
Spring Type Tubing Benders	2 lbs. 4 oz.	5" x 18.5" x 1.5"
R-12/22/134a Ball Valve Hose Set	1 lb.	6" x 14" x 1"
3 in 1 Tubing Bender 180°	1 lb.	8" x 13" x 5"
3 in 1 Tubing Bender 90°	15 oz.	4.5" x 13" x 2.5"
7 Sizes Flaring Kit	4 lbs. 6 oz.	8.5" x 6" x 1.5"
Flaring & Cutting Kit	3 lbs. 5 oz.	13" x 5.5" x 2"
Flaring, Swaging & Cutting Kit	5 lbs. 9 oz.	13" x 10" x 2"
6 Sizes Flaring Kit	2 lbs. 1 oz.	7.5" x 9.5" x 1.5"
Heavy Flaring Kit	2 lbs. 5 oz.	9" x 8.5" x 1"
Flaring Burnishing Tool	1 lb. 15 oz.	7.5" x 9.5 x 1.5"
Tubing Cutter (2002-0780)	3 oz.	4" x 5" x 1"
Tubing Cutter (2002-1878)	4 oz.	4" x 5" x 1"
Tubing Cutter (2002-1818)	4 oz.	4" x 5" x 1"
Telescopic Mirror Set	12 oz.	9" x 15.5" x 1"
Capillary Tube Cutter	3 oz.	3" x 8" x 1"
Fin Straightener	4 oz.	5" x 6" x 1"
Inner Outer Reamer (2002-6900)	8 oz.	4.5" x 6" x 2"
Valve Core Removal Tool	2 oz.	3" x 5" x 1"
Charging Scale	10 lbs. 10 oz.	17" x 15" x 4.5"
QV2 Vacuum Pump	25 lbs.	13" x 15" x 7.25"
QV5 Vacuum Pump	20 lbs.	13" x 15" x 7.25"



SERVICE YOU CAN COUNT ON

Bacharach offers a variety of factory service, calibration and repair services for most of its products. Some service coverage may be limited, or my incur additional charges, due to product obsolescence, damage or warranty coverage terms. Bacharach provides our customers with affordable professional factory service and repair that includes:

- **Fast turnaround times**
- **Free return shipping (to continental US locations only)**
- **Simplified flat rate pricing**

A Return Material Authorization number (RMA #) is required for all service and repair.
Please contact Customer Service at 1-800-736-4666 or 724-334-5000 for details or to acquire an RMA#, or send an email to: help@MyBacharach.com.

BACHARACH SERVICE LOCATIONS

Bacharach® Sales/Service Center

HEADQUARTERS:
621 Hunt Valley Circle
New Kensington, PA 15068-7074 USA
Toll Free: 800-736-4666
Ph: 724-334-5000
Fax: 724-334-5001
Email: help@MyBacharach.com

Bacharach® of Canada Sales/Service Center

20 Amber Street Unit #7
Markham, Ontario L3R 5P4 CANADA
Ph: 905-470-8985
Fax: 905-470-8963
Toll Free in Canada: 800-328-5217
Email: support@bachcan.ca

For international factory-authorized service locations, see Global Distribution section (page 47) or visit our Web site at: www.MyBacharach.com

FACTORY CALIBRATION & REPAIR SERVICES

A Return Material Authorization number (RMA #) is required for all service and repair.
Please contact Customer Service at 1-800-736-4666 or 724-334-5000 for details or to acquire an RMA#, or send an email to: help@MyBacharach.com.

- **Calibration (with standard certificate as appropriate) and functional tests available for the following:**
  - INSIGHT® Plus / INSIGHT®
  - InTech® / Tech 60
  - PCA® 2 / PCA® 3
  - Monoxor® III / Oxor® III
  - ECA 450
  - Odorometer®
  - NIST Certificate
- **Calibration with sensor replacement options available for the following:**
  - INSIGHT® Plus / INSIGHT® [CO or O_2 sensor, or 2 sensors]
  - InTech® / Tech: [CO or O_2 sensor, or 2 sensors]
  - PCA® 2 / PCA® 3: [O_2 sensor, 1, 2, 3 or 4 sensors]
  - Monoxor® III / Oxor® III: [CO or O_2 sensor]
  - ECA 450: [O_2 sensor, 1, 2, 3 or 4 sensors]
  - H10-G and H10-PM
- **Component part repairs available for all of the above items.**

For all other equipment, please contact Customer Service.

B-SMART® PROGRAM OPTIONS

You decide when you want to automatically receive your B-Smart® sensors for calibration.* When your new sensor arrives, simply remove the depleted sensor from the instrument, plug in the new pre-calibrated sensor and enter the accompanying calibration code to complete the replacement. Then return the used sensor in the postage-paid packaging. No downtime or added expense of returning the instrument to the factory for calibration services. A calibration certificate is included with each B-Smart® sensor.

- **INSIGHT® Plus / Fyrite® InTech® or INSIGHT® programs available:**
  - **2-sensor program:** Receive ONE sensor on your selected start date and the second sensor (1) year later.
  - **4-sensor program:** Receive ONE sensor on your selected start date and the next (3) sensors will be distributed in (6) month (or optional 9 month) increments after receiving your first sensor.
- **PCA® 3 programs available:**
  - **4-sensor program:** Receive ONE pre-calibrated sensor of your choice on your selected start date. The next sensor will be distributed in (9) month increments after receiving your first sensor until the 3-year program is complete.
  - **8-sensor program:** Receive TWO pre-calibrated sensors of your choice on your selected start date. The next sensors will be distributed in (9) month increments after receiving your first sensor until the 3-year program is complete.
  - **12-sensor program:** Receive THREE pre-calibrated sensors of your choice on your selected start date. The next sensors will be distributed in (9) month increments after receiving your first sensor until the 3-year program is complete.

To enroll, contact our Customer Service department at 724-334-5000 (press 1) for options and pricing or visit:
www.MyBacharach.com/bsmart.htm

Oxygen sensors are not included in the B-Smart® program and need to be purchased separately.
**The B-Smart® auto-ship sensor exchange program is currently only available in the U.S. and Canada. For other regions, B-Smart® sensors can be ordered at any time to replace depleted sensors.*

CUSTOMER SERVICE / PRODUCT TECHNICAL SUPPORT

Contact our Customer Service Department by phone, fax or e-mail. Your call will be answered by friendly, knowledgeable professionals Monday through Friday between 8 a.m. and 5 p.m. (EST). If you call during off-hours or if we are busy helping other customers, we encourage you to leave a message and we will return your call as quickly as possible. Please contact Bacharach according to your location and needs:

USA

To place orders or request a quotation:
Phone: 1-800-736-4666 (press 1 at prompt)
Fax: 724-334-5001
E-Mail: Help@MyBacharach.com

For repair or service questions or to request an RMA#:
Phone: 1-800-736-4666 (press 2 at prompt)
Fax: 724-334-5001
E-Mail: Help@MyBacharach.com

For technical inquiries:
Phone: 1-800-736-4666 (press 3 at prompt)
E-Mail: Help@MyBacharach.com

CANADA

For all inquiries:
Phone: 1-800-328-5217 (toll-free in Canada)
Fax: 905-470-8963
E-Mail: support@BachCan.ca

OUTSIDE OF USA / CANADA

To find a local distributor:
Phone: +1-724-334-5000 (press 4 at prompt)
Fax: +1-724-334-5705
E-Mail: Help@MyBacharach.com

REPRESENTATIVES AND DISTRIBUTORS

Bacharach has a worldwide network of partners anxious to handle your needs. Please contact Customer Service or go to **www.MyBacharach.com** to find a representative serving your local area.

PRICES AND TERMS

Prices are subject to change without notice. Terms of payment are Net 30 Days with established credit (FOB Factory). The minimum order requirement is $50.00 USD net. We also accept American Express, Visa, Mastercard and Discover or prepaid orders. Please see the Standard Terms and Conditions found at www.MyBacharach.com.

GOVERNMENT CUSTOMERS

Bacharach has been granted GSA Contract #GS-24F-1104B for Federal Supply Schedule 66. Product information is available in the GSA Advantage! Electronic Catalog on www.gsaadvantage.gov.

WARRANTY

Bacharach warrants all parts and components according to our standard Terms and Conditions, with provisions according to product warranties stated in the specific product Operating Instructions. Please complete the warranty registration card included with each instrument (return postage paid in USA), or complete the Warranty Registration Form found online at: www.MyBacharach.com/warranty-registration.htm.

RETURNS

All sales are considered final upon delivery by Bacharach to the initial carrier. Returns will be accepted only according to the Terms and Conditions with a Return Goods Authorization number (RGA#) issued by Bacharach.

SERVICE AND REPAIR

All service and repair of Bacharach equipment must be completed by an Authorized Service Center to uphold the Warranty. A Return Material Authorization number (RMA#) is required for all service and repair. For additional information please go to **www.MyBacharach.com/support.htm** or contact the Repair Department.

DESIGN CHANGES

Due to continuing improvements in design, some items may differ slightly from the description and photographs in the literature. All specifications are subject to change without notice. If you have product suggestions, please contact the Marketing Department via e-mail at: Marketing@MyBacharach.com.



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